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Geophysical Sciences Laboratory, Report No. 63-13



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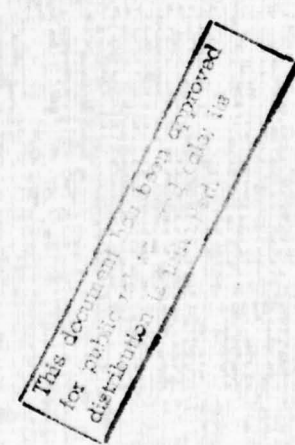
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A THREE DIMENSIONAL MODEL OF THE WIND DRIVEN HORIZONTAL VELOCITIES IN THE NORTH ATLANTIC OCEAN (I)

El Sayed Mohamed Hassan

and

Frank D. Malone



The research reported in this document has been sponsored by the U. S. Naval Oceanographic Office, Washington, D. C. under Contract No. N62306-794.

October 1963

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RESEARCH DIVISION
SCHOOL OF ENGINEERING AND SCIENCE
NEW YORK UNIVERSITY

Department of Meteorology and Oceanography

Geophysical Sciences Lab

(6) A THREE DIMENSIONAL MODEL OF THE WIND DRIVEN HORIZONTAL
VELOCITIES IN THE NORTH ATLANTIC OCEAN.

Part I. Discussion and Mean Circulation in the North Atlantic

(10) El Sayed Mohamed/Hassan

~~and~~
Frank D. Malone



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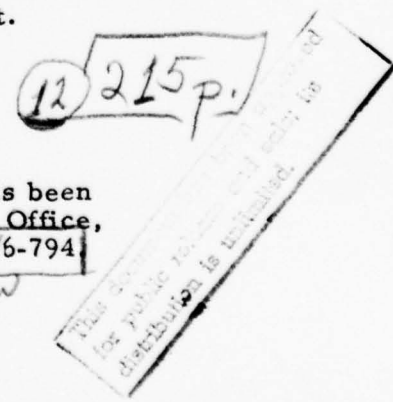
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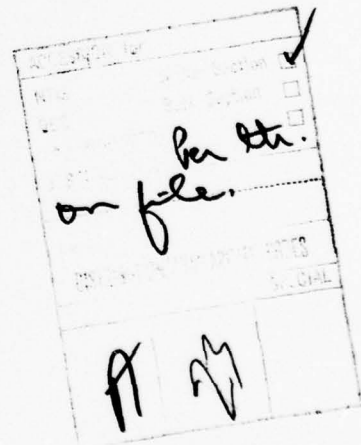


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Preface

When trying to make a numerical forecasting model for the oceanic circulation, the lack of knowledgeable boundary conditions at the lateral boundaries of an arbitrary body of water was acutely felt. Parts I- V of this report is an attempt to remedy that for the North Atlantic. This, however, suffers from many defects: The model is not all that one desires; the resolution is low and the equatorial region is not properly treated. It is, however hesitatingly, introduced as a first attempt to be used, and abused and eventually to help construct a better model.

Part VI deals with two side problems that were of interest during this work, and were judged of general interest to warrant reporting them.


The most interesting part, will probably be Part VII which contains the prediction model and tests based on actual observations. This will appear later in 1964.

The U. S. Naval Oceanographic Office has generously and sympathetically sponsored this work under Contract N62306-794.

The staff of the AEC Computing Center at New York University were very helpful and understanding.

To Mrs. Lillian Bloom goes the thanks of the authors for her neat typing of a difficult piece of work written almost in hieroglyphic. The authors also wish to thank Miss Roberta Bloom, Mrs. Gertrude Fisher and Mr. Soliman Lotaief for their help in preparing the figures which appear in Part VI of this report.

Abstract:

→ Starting with the wind stress over the North Atlantic Ocean computed by Hidaka (1958), a model of the three dimensional picture of the horizontal velocity is developed. This is presented as a possible climatological atlas for the currents. Limitations of the method are discussed. 

Introduction:

While attempting to forecast the oceanic circulation, the problem of lateral boundary conditions had to be tackled. Any oceanic area not involving the whole world ocean, will have at least one lateral water boundary. Specifying the exchange of water across this boundary affects the circulation inside the area basically. In general, to know the distribution of the water exchange across any arbitrary water boundary in a body of water, is equivalent to knowing the circulation everywhere in that body. If this is known for all time, this implies that the prediction of the circulation is known. The circle of argument is thus complete: To make a prediction of the circulation in an arbitrary area in the ocean the boundary exchange should be known, and to know the boundary exchange at all time means that a prediction must have been made. As a compromise solution, oceanic circulation was treated as a steady state problem, the water being driven by wind stress. The North Atlantic was chosen to compute numerically the currents using the wind stress published by Hidaka (1958). These were published by season, and for the

annual mean, and correspondingly, five circulation patterns were calculated.

Fundamental Equations and Assumptions:

The equations used were of the form:

$$-f\rho v = -\frac{\partial p}{\partial x} + A_V \frac{\partial^2 u}{\partial z^2} + A_H \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} \right) \quad (1)$$

$$f\rho u = -\frac{\partial p}{\partial y} + A_V \frac{\partial^2 v}{\partial z^2} + A_H \left(\frac{\partial^2 v}{\partial x^2} + \frac{\partial^2 v}{\partial y^2} \right) \quad (2)$$

$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = \frac{\tan \phi}{R} v \quad (3)$$

$$u \frac{\partial \rho}{\partial x} + v \frac{\partial \rho}{\partial y} = 0 \quad (4)$$

and the boundary conditions are $\tau_x = -A_V \frac{\partial u}{\partial z} \Big|_{z=0}$, $\tau_y = -A_V \frac{\partial v}{\partial z} \Big|_{z=0}$

and $u = v = 0$ at the lateral boundaries and at the bottom.

The meanings of the symbols are as follows:

- β Rate of change of Coriolis parameter with latitude.
- ϕ North latitude.
- λ East longitude.
- ρ Water density.
- τ Wind stress in c. g. s. units.
- τ_x Zonal component of wind stress.
- τ_y Meridional component of wind stress.

- ω Angular velocity of the earth's rotation.
- f Coriolis parameter $\equiv 2 \omega \sin \varphi$.
- h Constant depth of the ocean.
- p Pressure.
- u Zonal velocity.
- v Meridional velocity.
- x Zonal coordinate $\equiv R \lambda \cos \varphi$.
- y Meridional coordinate $\equiv R \varphi$.
- z Vertical coordinate increasing downwards.
- A_H Exchange coefficient in the horizontal direction.
- A_V Exchange coefficient in the vertical direction.
- R The radius of the earth.

Conditions imposed by the equations are:

- (1) The flow is steady.
- (2) Vertical velocity is equal to zero.
- (3) Nonlinear terms are negligible, if compared with terms retained in the equations.
- (4) The exchange coefficients are constant.
- (5) The fluid is incompressible and the flow is nondivergent.

Setting the equations for solution:

When (1) is differentiated partially with respect to y and (2) with respect to x , and the first differentiated equation subtracted from the second, then equation (5) result: .

$$\rho v f \frac{\tan \phi}{R} + \rho v \beta = \frac{\tan \phi}{R} \frac{\partial p}{\partial x} + A_V \frac{\partial^2}{\partial z^2} \left(\frac{\partial v}{\partial x} - \frac{\partial u}{\partial y} \right) + A_H \left(\frac{\partial^3 v}{\partial x^3} + \frac{\partial^3 v}{\partial x \partial y^2} - \frac{\partial^3 u}{\partial y \partial x^2} - \frac{\partial^3 u}{\partial y^3} \right) \quad (5)$$

The velocity components u and v are then expanded in Fourier series such that:

$$\left. \begin{aligned} u &= \sum_{j=1}^{\infty} u_j \cos \frac{(2j-1)\pi z}{2h} \\ v &= \sum_{j=1}^{\infty} v_j \cos \frac{(2j-1)\pi z}{2h} \end{aligned} \right\} \quad (6)$$

This expansion automatically satisfies the boundary condition at the bottom, and can represent any natural profile in the ocean.

Then it can be shown from the boundary conditions at the surface and bottom that:

$$\left. \begin{aligned} \frac{\partial^2 u}{\partial z^2} &= \sum_j \left[\frac{2\tau_x}{hA_V} - \left(\frac{(2j-1)\pi}{2h} \right)^2 u_j \right] \cos \frac{(2j-1)\pi z}{2h} \\ \text{and } \frac{\partial^2 v}{\partial z^2} &= \sum_j \left[\frac{2\tau_y}{hA_V} - \left(\frac{(2j-1)\pi}{2h} \right)^2 v_j \right] \cos \frac{(2j-1)\pi z}{2h} \end{aligned} \right\} \quad (7)$$

When substitutions from (1), (6) and (7) are made into (5), equation (8) results

$$\sum_{j=1}^{\infty} \left(v_j \rho \beta - A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \left(\frac{\partial u_j}{\partial y} - \frac{\partial v_j}{\partial x} \right) - \frac{2}{h} \left(\frac{\partial \tau_y}{\partial x} - \frac{\partial \tau_x}{\partial y} \right) - A_H \left(\frac{\partial^3 v_j}{\partial x^3} + \frac{\partial^3 v_j}{\partial x \partial y^2} - \frac{\partial^3 u_j}{\partial y \partial x^2} - \frac{\partial^3 u_j}{\partial y^3} \right) \right)$$

$$\begin{aligned}
& + \frac{\tan \phi}{R} \left[\left(-\frac{2\tau_x}{h} \right) + A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 u_j \right. \\
& \left. - A_H \left(\frac{\partial^2 u_j}{\partial x^2} + \frac{\partial^2 u_j}{\partial y^2} \right) \right] \cos \frac{(2j-1)\pi z}{2h} = 0
\end{aligned} \tag{8}$$

As all dependency on z in (8) appears in the term $\cos \frac{(2j-1)\pi z}{2h}$ and as (8) is true for all z , it follows that the coefficients of the cosine term can be equated to zero independently. Thus, equation (8) can be replaced by the system (8').

$$\begin{aligned}
& \left(v_j \rho \beta - A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \left(\frac{\partial u_j}{\partial y} - \frac{\partial v_j}{\partial x} \right) - \frac{z}{h} \left(\frac{\partial \tau_y}{\partial x} - \frac{\partial \tau_x}{\partial y} \right) \right. \\
& \left. - A_H \left(\frac{\partial^3 v_j}{\partial x^3} + \frac{\partial^3 v_j}{\partial x \partial y^2} - \frac{\partial^3 u_j}{\partial y \partial x^2} - \frac{\partial^3 u_j}{\partial y^3} \right) \right. \\
& \left. + \frac{\tan \phi}{R} \left[-\frac{2\tau_x}{h} + A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 u_j \right. \right. \\
& \left. \left. - A_H \left(\frac{\partial^2 u_j}{\partial x^2} + \frac{\partial^2 u_j}{\partial y^2} \right) \right] \right) = 0
\end{aligned} \tag{8'}$$

From (3) a stream function Ψ_j can be introduced such that:

$$u_j = \frac{\partial \Psi_j}{\partial y}, \quad v_j = -\frac{\partial \Psi_j}{\partial x}$$

Each equation of the system (8') can now be set separately for solution.

Thus, dropping j when it appears as a subscript, (9) represents a typical

equation of the system (8').

$$\begin{aligned} & \rho \beta \frac{\partial \Psi}{\partial x} + \frac{\tan \varphi}{R} \left(\frac{2\tau_x}{h} - A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \frac{\partial \Psi}{\partial y} + A_H \left(\frac{\partial^2 \Psi}{\partial x^2} \frac{\partial \Psi}{\partial y} + \frac{\partial^3 \Psi}{\partial y^3} \right) \right) \\ & + \left(\frac{2}{h} \frac{\partial \tau_y}{\partial x} - \frac{2}{h} \frac{\partial \tau_x}{\partial y} \right) + A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \left(\frac{\partial^2 \Psi}{\partial x^2} + \frac{\partial^2 \Psi}{\partial y^2} \right) \\ & - A_H \left[\frac{\partial^4 \Psi}{\partial x^4} + \frac{\partial^4 \Psi}{\partial y^4} + 2 \frac{\partial^2}{\partial x^2} \left(\frac{\partial^2 \Psi}{\partial y^2} \right) + 4 \frac{\tan \varphi}{R} \frac{\partial^2}{\partial x^2} \frac{\partial \Psi}{\partial y} + \frac{1}{R^2} \frac{\partial^2 \Psi}{\partial x^2} (1 + 2 \tan^2 \varphi) \right] = 0 \end{aligned}$$

Equation (9) can be put in the finite difference form by using the following approximations consistent with the retention of the 4th order derivatives

$$\frac{\partial F_{0,0}}{\partial x} = \frac{8(F_{1,0} - F_{-1,0}) - (F_{2,0} - F_{-2,0})}{12 \Delta x}, \quad \frac{\partial F_{0,0}}{\partial y} = \frac{8(F_{0,1} - F_{0,-1}) - (F_{0,2} - F_{0,-2})}{12 \Delta y}$$

$$\frac{\partial^2 F_{0,0}}{\partial x^2} = \frac{16(F_{1,0} + F_{-1,0}) - (F_{2,0} + F_{-2,0}) - 30 F_{0,0}}{12(\Delta x)^2}$$

$$\frac{\partial^2 F_{0,0}}{\partial y^2} = \frac{16(F_{0,1} + F_{0,-1}) - (F_{0,2} + F_{0,-2}) - 30 F_{0,0}}{12(\Delta y)^2}$$

$$\frac{\partial^3 F_{0,0}}{\partial y^3} = \frac{(F_{0,2} - F_{0,-2}) - 2(F_{0,1} - F_{0,-1})}{2(\Delta y)^3}$$

$$\frac{\partial^4 F}{\partial x^4} = \frac{(F_{2,0} + F_{-2,0}) - 4(F_{1,0} + F_{-1,0}) + 6 F_{0,0}}{(\Delta x)^4}$$

$$\frac{\partial^4 F}{\partial y^4} = \frac{(F_{0,2} + F_{0,-2}) - 4(F_{0,1} + F_{0,-1}) + 6F_{0,0}}{(\Delta y)^4}$$

$$\frac{\partial^3 F_{0,0}}{\partial x^2 \partial y} = \frac{(F_{1,1} + F_{-1,1} - F_{1,-1} - F_{-1,-1}) - 2(F_{0,1} - F_{0,-1})}{2(\Delta x)^2 \Delta y} \quad \text{and}$$

$$\frac{\partial^4 F}{\partial x^2 \partial y^2} = \frac{4F_{0,0} + F_{1,1} + F_{-1,-1} + F_{1,-1} + F_{-1,1} - 2(F_{1,0} + F_{-1,0} + F_{0,-1} + F_{0,1})}{(\Delta x)^2 (\Delta y)^2}$$

Equation (9) then becomes:

$$\begin{aligned} & \Psi_{0,0} \left[-\frac{5}{2} A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \left(\frac{1}{\Delta x^2} + \frac{1}{\Delta y^2} \right) - A_H \left(\frac{6}{\Delta x^4} + \frac{6}{\Delta y^4} + \frac{8}{\Delta x^2 \Delta y^2} \right) \right. \\ & \quad \left. + \frac{5}{2} A_H \frac{\tan^2 \varphi + \sec^2 \varphi}{R^2 \Delta x^2} \right] \\ & + \Psi_{2,0} \left[-\frac{\rho \beta}{12 \Delta x} - A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{1}{12 \Delta x^2} - \frac{A_H}{\Delta x^4} + A_H \frac{\tan^2 \varphi + \sec^2 \varphi}{12 R^2 \Delta x^2} \right] \\ & + \Psi_{1,0} \left[\frac{2 \rho \beta}{3 \Delta x} + A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{4}{3 \Delta x^2} + \frac{4 A_H}{\Delta x^4} + \frac{4 A_H}{\Delta x^2 \Delta y^2} - \frac{4}{3} A_H \frac{\tan^2 \varphi + \sec^2 \varphi}{R^2 \Delta x^2} \right] \\ & + \Psi_{-1,0} \left[-\frac{2 \rho \beta}{3 \Delta x} + A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{4}{3 \Delta x^2} + \frac{4 A_H}{\Delta x^4} + \frac{4 A_H}{\Delta x^2 \Delta y^2} - \frac{4}{3} A_H \frac{\tan^2 \varphi + \sec^2 \varphi}{R^2 \Delta x^2} \right] \\ & + \Psi_{-2,0} \left[\frac{\rho \beta}{12 \Delta x} - A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{1}{12 \Delta x^2} - \frac{A_H}{\Delta x^4} + A_H \frac{\tan^2 \varphi + \sec^2 \varphi}{12 R^2 \Delta x^2} \right] \\ & + \Psi_{0,2} \left[A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{\tan \varphi}{12 R \Delta y} + A_H \cdot \frac{\tan \varphi}{2 R (\Delta y)^3} - A_V \left(\frac{(2j-1)\pi}{2h} \right)^3 \cdot \frac{1}{12 \Delta y^2} - \frac{A_H}{\Delta y^4} \right] \end{aligned}$$

$$\begin{aligned}
& + \Psi_{0,1} \left[-A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{2 \tan \varphi}{3R\Delta y} - A_H \frac{\tan \varphi}{R(\Delta y)^3} + A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{4}{3\Delta y^2} \right. \\
& \quad \left. + \frac{4A_H}{\Delta y^4} + \frac{4A_H}{\Delta x^2 \Delta y^2} + A_H \frac{3 \tan \varphi}{R\Delta x^2 \Delta y} \right] \\
& + \Psi_{0,-1} \left[A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{2 \tan \varphi}{3R\Delta y} + A_H \frac{\tan \varphi}{R(\Delta y)^3} + A_V \left(\frac{(2j-1)\pi}{2h} \right)^2 \cdot \frac{4}{\Delta y^2} \right. \\
& \quad \left. + \frac{4A_H}{\Delta y^4} + \frac{4A_H}{\Delta x^2 \Delta y^2} - A_H \frac{3 \tan \varphi}{R\Delta x^2 \Delta y} \right] \\
& + (\Psi_{1,1} + \Psi_{-1,1}) \left[-A_H \cdot \frac{3 \tan \varphi}{2R\Delta x^2 \Delta y} - \frac{2A_H}{\Delta x^2 \Delta y^2} \right] + (\Psi_{1,-1} + \Psi_{-1,-1}) \left[A_H \cdot \frac{3 \tan \varphi}{2R\Delta x^2 \Delta y} - \frac{2A_H}{\Delta x^2 \Delta y^2} \right] \\
& = - \frac{\tan \varphi}{R} \cdot \frac{2\tau_{x0,0}}{h} - \frac{1}{6h} \left[\frac{1}{\Delta x} (\tau_{y-2,0} - \tau_{y2,0} - 8(\tau_{y-1,0} - \tau_{y1,0})) \right. \\
& \quad \left. + \frac{1}{\Delta y} (\tau_{x0,2} - \tau_{x0,-2} - 8(\tau_{x0,1} - \tau_{x0,-1})) \right] \quad (10)
\end{aligned}$$

Computations and Results:

The values used for the parameters were as follows:

$$A_V = 50 \text{ gm cm}^{-1} \text{ sec}^{-1}$$

$$A_H = 10^8 \text{ gm cm}^{-1} \text{ sec}^{-1}$$

$$h = 2000 \text{ meters}$$

$$\Delta y = 555.6 \text{ km}$$

$$\Delta x = \Delta y \cos \varphi$$

$$R = 6371 \text{ km}$$

$$\rho = 1.027 \text{ gm cm}^{-3}$$

$$\omega = 7.292 \times 10^{-5} \text{ sec}^{-1}$$

Values for wind stress were taken from the computations by Hidaka (1958) these values appear at the beginning of the different parts of this report. Part I contains the annual mean, and the seasons starting by the spring appear in Parts II through V. The wind stress curl, defined as the right hand side of equation (10) is then given. Solving the system of equations (10) as a system of simultaneous linear algebraic equations was found to be more accurate and less time consuming than solving it by iteration. The number of grid points was 147 or less, and the resulting matrix was inverted in less than one minute. The curl of the wind stress could not be accurately determined near the boundaries because values on land were taken as zero. The first hundred Fourier coefficients are given for the grid points, and stream functions, zonal and meridional velocities for selected levels based on the hundred Fourier coefficients are then given. The depth of the selected levels appear in Table I. The highest velocities appeared at the surface, but secondary maxima occurred at subsurface depths. The greatest velocity in any season did not exceed 100 cm/sec, and occurred near the western boundary. This is less than half the recognized value for the western current, but remembering that the grid size is 5°square, so that this value is an averaged value, this value seems reasonable.

Discussion:

The model discussed here is proposed as a probable climatic picture of the North Atlantic circulation. It should be tested by comparing it to observations, and if found adequate, it can serve as a skeleton

to help interpret the rapidly accumulating amount of observations. It exhibits the main observed surface features, e.g. the northern current system, the Gulf Stream system, and the equatorial current system. Certain differences are observed, however, like the north going current off the African coast. The subsurface currents cannot be verified because of lack of observations, but the under current below the Gulf Stream, which was observed sometimes, is clearly shown.

Modifications of the profiles in the model can be accomplished by changing the parameters A_V and A_H . Computations have been repeated taking for A_V and A_H the pairs of values $100, 10^7$; $100, 10^8$; $500, 10^8$. No significant difference in the pattern occurred, but differences occurred in details e.g. The position and magnitude of the maximum stream function at different depths. The use of exchange coefficients varying in space was not done, as precise knowledge of their magnitude is lacking.

The greatest restriction of the model, however, is the forced absence of vertical velocity. In this model, it is a price paid to enable a three dimensional picture of the horizontal velocities. It is only necessary, however, to stipulate known values for $\partial w / \partial z$ in the equation of continuity to relax these conditions. In practice, $\partial w / \partial z$ at all depths is not known, but models with "reasonable" values are considered to test the restriction. A less drastic assumption is neglecting the non-linear terms. Checking the magnitude of these terms by using the values of velocity that resulted from the computation reveals that they are everywhere less by order of magnitude than the terms retained in the equation

of motion. This, in part is due to the low resolution resulting from the coarse grid.

The conditions of no velocities at the lateral boundaries is not correct where the North Atlantic is connected with other bodies of water. The results at these places should be considered more approximate than those in the rest of the ocean. In spite of the obvious crudity of the model, it is felt that it can serve as a useful first approximation to the circulation.

Table I: Depths in meters of levels at which stream functions and velocities were computed.

<u>Level No.</u>	<u>Depth</u>	<u>Level No.</u>	<u>Depth</u>
1	0	17	320
2	20	18	340
3	40	19	360
4	60	20	380
5	80	21	400
6	100	22	500
7	120	23	600
8	140	24	700
9	160	25	800
10	180	26	900
11	200	27	1000
12	220	28	1200
13	240	29	1400
14	260	30	1600
15	280	31	1800
16	300	32	2000

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21.54

57.5%	-0.2711E 09 -0.2719E 08 -0.1107E 09 -0.4538E 07 -0.4432E 08
58.5%	0.4537E 08 -0.4074E 08 -0.1651E 08 -0.5557E 08 -0.4460E 07 -0.2567E 08 0.2568E 08
59.5%	-0.5892E 08 -0.3499E 08 -0.7516E 08 -0.5205E 08 -0.6268E 08 -0.5686E 08 -0.5394E 08 -0.1236E 08 -0.8291E 07 -0.1704E 08
60.5%	-0.6052E 08 -0.3490E 08 -0.1001E 09 -0.1249E 09 -0.4158E 09 -0.4679E 08 -0.6777E 08 -0.7767E 08 -0.5228E 08 -0.2233E 08 -0.5194E 07
61.5%	-0.1858E 09 -0.4440E 08 -0.1794E 09 -0.7450E 08 -0.4158E 08 -0.1722E 09 -0.4158E 08 -0.1104E 09 -0.4155E 08 -0.6595E 08 -0.1107E 07 -0.1390E 08
62.5%	-0.2646E 09 -0.5582E 08 -0.2323E 09 -0.4880E 08 -0.1721E 09 -0.2508E 08 -0.1142E 09 -0.1633E 07 -0.7094E 08 0.1636E 08 -0.5125E 08 -0.4082E 08 0.1028E 08 0.4234E 08
63.5%	-0.2469E 09 -0.5867E 08 -0.1880E 08 -0.1423E 09 -0.1806E 08 -0.1461E 09 0.4912E 07 -0.4613E 08 0.3905E 08 -0.4099E 08 0.7608E 08 0.4150E 07 0.1662E 09
64.5%	-0.1673E 09 -0.4611E 07 -0.3194E 09 -0.2351E 09 -0.2859E 08 -0.8688E 08 0.5393E 08 -0.4504E 08 0.4745E 08 -0.6941E 07 0.1222E 09 0.5191E 08 0.1590E 09
65.5%	-0.4466E 08 -0.5531E 07 -0.7402E 08 0.1948E 08 -0.4677E 08 0.4675E 08 -0.2462E 08 0.7568E 08 0.2462E 08 0.1104E 09 0.4627E 08 0.1008E 09
66.5%	0.1117E 09 0.1174E 08 0.1418E 09 0.5018E 07 0.4949E 08 -0.1855E 08 0.6464E 08 -0.8899E 07 0.7857E 08 -0.1497E 07 0.6385E 08 -0.1767E 08 0.5348E 08 -0.4248E 08
67.5%	0.1217E 09 -0.2368E 08 0.1855E 08 -0.2797E 08 0.4497E 08 -0.4765E 08 0.6434E 07 -0.6402E 08 -0.1377E 08 -0.6104E 08
68.5%	0.2760E 08 -0.2199E 08 -0.5808E 08 -0.2199E 08 -0.5808E 08 -0.6070E 07 -0.7423E 08 -0.1668E 08 -0.7191E 08 -0.1161E 08 -0.6540E 08 -0.1161E 08 -0.6540E 08 -0.6082E 08

51.5N	0.2700F 0.9.5550E 08 0.1099E 09 -0.1065E 08 -0.4155E 07 -0.5898E 08
52.5N	0.4813Z 08 -0.6951E 38 -0.1924E 08 -0.5549E 08 -0.4027E 07 -0.2615E 08 0.2189E 08
54.5N	-0.5197E 08 -0.3519E 08 -0.5555E 08 -0.6169E 08 -0.5719E 08 -0.3288E 08 -0.1271E 08 -0.7322E 07 -0.3504E 07 -0.1505E 38
56.5N	-0.5780E 08 -0.4940E 08 -0.1161E 38 -0.1199E 38 -0.1758E 09 -0.9536E 08 -0.7107E 08 -0.5209E 08 -0.2207E 08 -3.4952E 07
57.5N	-0.1777E 19 -0.46550E 08 -0.1704E 38 -0.7394E 38 -0.1651E 38 -0.1422E 09 -0.7531E 38 -0.1224E 09 -0.4142E 08 -0.5656E 08 0.1194E 07 -0.7138E 07
57.5N	-0.2687E 09 -0.6130E 08 -0.4284E 08 -0.5501E 08 -0.1754E 38 -0.4559E 38 -0.1084E 38 0.1359E 08 -0.5319E 08 0.3332E 08 0.9536E 07 0.5534E 08
57.5N	-0.4995E 09 -0.4551E 08 -0.2709E 08 -0.1494E 38 -0.2649E 08 -0.1474E 38 3.6155E 38 -0.4971E 08 0.2942E 08 -0.4049E 08 0.6597E 08 0.2699E 07 0.4614E 08
57.5N	-0.1811E 09 -0.1221E 08 -0.6752E 09 -0.1534E 38 -0.2524E 08 -0.1914E 08 0.5320E 08 -0.4499E 08 0.4051E 38 -0.4770E 07 0.1149E 09 0.5117E 08 0.1519E 09
57.5N	-0.9804E 08 -0.7261E 07 -0.7522E 08 0.1637E 08 -0.5161E 08 0.4497E 08 -0.2277E 08 0.6669E 08 3.1153E 08 0.6594E 38 0.1259E 08 0.1057E 09 0.4534E 08 0.9562E 08
57.5N	0.1941E 09 0.4815E 08 0.1444E 08 0.4794E 08 -0.1178E 38 0.4823E 08 -0.1194E 07 0.1746E 08 0.6917E 08 -0.4407E 07 0.5304E 08 -0.5371E 08
57.5N	0.1294E 38 0.1952E 38 0.0177E 08 -0.2534E 08 0.4694E 38 -0.4440E 08 0.9501E 07 -0.6592E 08 -0.1109E 08 -0.4489E 08
57.5N	0.0077E 08 -3.2249E 08 0.2557E 38 -0.5504E 08 -0.5174E 07 -0.7168E 08 -0.1444E 08 -0.7179E 08 -0.1022E 08 -0.4235E 38 -0.1137E 38 -0.5789E 08

[illegible]

07.54

57.5N	0.2562E 09 0.5859E 08 0.1025E 09 0.4997E 07 -0.5376E 07 -0.6096E 08
52.5N	0.7567E 08 -0.4075E 08 -0.2594E 08 -0.5527E 08 -0.1919E 08 -0.2706E 08 0.9332E 07
47.5N	-0.5455E 08 -0.5627E 08 -0.6495E 08 -0.5005E 08 -0.5872E 08 -0.3875E 08 -0.2908E 08 -0.1219E 08 -0.5661E 07 0.6559E 07 -0.1219E 08
42.5N	-0.4757E 08 -0.5165E 08 -0.6627E 08 -0.1034E 09 -0.1111E 09 -0.1051E 09 -0.4013E 08 -0.8600E 08 -0.6821E 08 -0.5081E 08 -0.2132E 08 -0.3726E 07
37.5N	-0.1592E 09 -0.5042E 08 -0.1475E 09 -0.8065E 08 -0.1400E 09 -0.4982E 08 -0.1282E 09 -0.4079E 08 -0.8576E 08 -0.4471E 08 -0.4628E 08 -0.1896E 08 0.7719E 07
32.5N	-0.2765E 09 -0.8018E 08 -0.2550E 09 -0.4427E 08 -0.1715E 09 -0.6411E 08 -0.1124E 09 -0.5661E 08 -0.6092E 08 -0.1737E 08 -0.5046E 08 0.7662E 07 0.7945E 07 0.5234E 08
27.5N	-0.5170E 09 -0.6882E 08 -0.2654E 09 -0.1477E 09 -0.6166E 08 -0.1495E 09 -0.5695E 08 -0.4946E 08 -0.8498E 07 -0.5157E 08 0.2703E 08 -0.1568E 07 0.5868E 08
22.5N	-0.2147E 09 -0.2533E 08 -0.1865E 09 -0.7705E 08 -0.1522E 09 -0.5696E 07 -0.6176E 08 0.2165E 08 -0.6103E 08 0.4571E 08 -0.1937E 08 0.7787E 08 0.2385E 08 0.9495E 08
17.5N	-0.1374E 09 -0.1534E 08 -0.8512E 08 0.3295E 07 -0.6295E 08 0.2851E 08 -0.8306E 08 0.4787E 08 0.5213E 07 0.6668E 08 0.2755E 08 0.6587E 08 0.4150E 08 0.7656E 08
12.5N	0.1691E 09 0.5315E 08 0.1186E 08 0.4675E 08 0.1524E 08 0.8002E 08 0.2855E 08 0.7792E 08 0.4853E 08 0.6556E 08 0.2596E 08 0.5586E 08 -0.1147E 07
07.5N	0.1582E 09 0.1265E 08 0.9776E 08 0.9776E 08 -0.9998E 07 0.5400E 08 -0.5059E 08 0.1645E 08 -0.4724E 08 -0.1050E 08 -0.4559E 08
2.5N	0.9576E 08 -0.1275E 08 0.5482E 08 -0.4465E 08 0.7236E 07 -0.5051E 08 -0.6081E 07 -0.5678E 08 -0.4525E 07 -0.4715E 08 -0.9536E 07 -0.6295E 08

[illegible]

32.5N	0.2410E 09 0.7211E 08 0.9595E 08 0.2108E 08 -0.2379E 07 -0.4320E 08
32.5N	0.7441E 08 -0.2370E 08 -0.2695E 08 -0.5011E 08 -0.2355E 08 -0.2679E 08 0.16819E 07
32.5N	-0.5219E 08 -0.3608E 08 -0.5788E 08 -0.5757E 08 -0.4004E 08 -0.2657E 08 -0.1231E 08 -0.2279E 07 0.5265E 07 -0.1627E 08
32.5N	-0.0419E 08 -0.1249E 08 -0.0.7688E 08 -0.1411E 09 -0.1072E 09 -0.1010E 09 -0.8775E 08 -0.4954E 08 -0.2120E 08 -0.27753E 07
32.5N	-0.1721E 09 -0.0349E 08 -0.1381E 09 -0.4562E 08 -0.1312E 09 -0.1071E 09 -0.1212E 09 -0.8375E 08 -0.7865E 08 -0.4707E 08 -0.1638E 07 0.1120E 08
32.5N	-0.2741E 08 -0.8274E 08 -0.0.2786E 09 -0.1372E 09 -0.1658E 09 -0.8498E 08 -0.138E 09 -0.5113E 08 -0.6587E 08 -0.2940E 08 -0.2972E 08 -0.2423E 07 0.7579E 07 0.2419E 08
32.5N	-0.3190E 09 -0.7013E 08 -0.2608E 09 -0.0.7688E 08 -0.1429E 09 -0.8237E 08 -0.1456E 09 -0.5766E 08 -0.8742E 08 -0.2901E 08 -0.5135E 08 0.7772E 07 -0.2468E 07 0.4059E 08
32.5N	-0.2489E 08 -0.1594E 08 -0.1953E 09 -0.0.4411E 08 -0.1381E 09 -0.1115E 09 -0.2265E 08 -0.8404E 08 0.2262E 08 -0.2251E 08 0.5451E 08 0.2079E 08 0.7730E 08
32.5N	-0.1122E 09 -0.2044E 08 -0.4940E 08 -0.5127E 07 -0.0404E 08 0.1797E 08 -0.2407E 08 -0.1456E 08 -0.5628E 08 0.2421E 07 0.5455E 08 0.2476E 08 0.7351E 08 0.1924E 08 0.6500E 08
32.5N	0.1541E 08 0.2485E 08 0.1249E 08 0.4445E 08 0.0451E 08 0.2462E 08 0.7407E 08 0.4217E 08 0.1419E 08 0.5239E 08 0.6276E 08 0.5801E 08 0.3551E 08 0.1237E 08
32.5N	0.1444E 08 0.2079E 08 0.4750E 08 -0.1752E 08 0.5797E 08 -0.2026E 08 0.1711E 08 -0.8753E 08 -0.0711E 07 -0.5710E 08
32.5N	

FOURIER EXPANSION OF THE STRAIN FUNCTION. COMPONENT NO. 6

[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION-COMPONENT NO. 7

	82.5M	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5M	07.5M
57.5M																		
52.5M																		
47.5M																		
42.5M																		
37.5M																		
32.5M																		
27.5M																		
22.5M																		
17.5M																		
12.5M																		
07.5M																		
02.5M																		

0.1947E 09 0.6157E 08 0.8299E 08 0.5711E 08 0.1200E 07 -0.2841E 08

0.7289E 08 -0.5776E 07 -0.2367E 08 -0.4048E 08 -0.2718E 08 -0.2441E 08 -0.3408E 07

-0.4583E 08 -0.3753E 08 -0.5980E 08 -0.6041E 08 -0.5646E 08 -0.4256E 08 -0.2818E 08 -0.1278E 08 -0.9082E 04 0.4623E 07 -0.6979E 07

-0.3502E 08 -0.4032E 08 -0.6854E 08 -0.9961E 08 -0.1014E 09 -0.1005E 09 -0.8505E 08 -0.4018E 08 -0.6584E 08 -0.4724E 08 -0.2165E 08 -0.1615E 07

-0.1394E 09 -0.6502E 08 -0.1225E 09 -0.9443E 08 -0.1186E 09 -0.1130E 09 -0.8898E 08 -0.7453E 08 -0.1044E 08 -0.3425E 08 -0.4653E 07 0.1502E 08

-0.2556E 09 -0.1177E 09 -0.2086E 09 -0.1297E 09 -0.1531E 09 -0.1063E 09 -0.7056E 08 -0.6310E 08 -0.4284E 08 -0.2924E 08 -0.1167E 08 0.6114E 07 0.1780E 08

-0.5042E 09 -0.1086E 09 -0.1118E 09 -0.1726E 09 -0.1100E 09 -0.1316E 09 -0.8555E 08 -0.8928E 08 -0.5481E 08 -0.1620E 08 -0.4605E 07 0.1913E 08

-0.2356E 09 -0.5688E 08 -0.1917E 09 -0.7262E 08 -0.1514E 09 -0.5957E 08 -0.1050E 09 -0.6002E 08 -0.3730E 08 -0.6002E 08 -0.1191E 08 -0.2193E 08 0.1415E 08 0.1600E 08 0.4025E 08

-0.1158E 09 -0.4075E 08 -0.9293E 08 -0.2215E 08 -0.6683E 08 -0.5101E 07 -0.5101E 07 -0.5632E 08 0.1369E 08 -0.9955E 08 0.5275E 08 0.2082E 08 0.5256E 08 0.5602E 08 0.4584E 08

0.1072E 09 0.4620E 08 0.9400E 08 0.5507E 08 0.4418E 08 0.4424E 08 0.5159E 08 0.5323E 08 0.5407E 08 0.6188E 08 0.5393E 08 0.4724E 08 0.5247E 08 0.2084E 08

0.1462E 09 0.3644E 08 0.1005E 09 0.2125E 08 0.6028E 08 0.1890E 07 0.1912E 08 -0.1715E 08 -0.1075E 07 -0.1975E 08

0.1101E 09 0.7511E 07 0.4857E 08 0.1277E 08 -0.1786E 08 0.1277E 08 -0.2955E 08 -0.5775E 07 -0.2755E 08 -0.2789E 07 -0.1857E 08 -0.7032E 07 -0.1660E 08

[illegible]

51.5N	0.1775E 0V 0.9807E 0B 0.7816E 0B 0.4084E 0B 0.3992E 0F -0.2013E 0B
52.5N	0.7320E 0B 0.3126E 0F -0.2022E 0B -0.58V4E 0B -0.2665E 0B -0.2284E 0B -0.8V51E 0F
53.5N	-0.4204E 0B -0.4704E 0B -0.5592E 0B -0.6035E 0B -0.434VE 0B -0.2865E 0B -0.1317E 0B -0.8U72E 0B 0.7088E 0F -0.5582E 0F
54.5N	-0.2481E 0B -0.2872E 0B -0.6560E 0B -0.9887E 0B -0.9V76E 0B -0.8V50E 0B -0.8N3VE 0B -0.7883E 0B -0.655VE 0B -0.4670E 0B -0.2205E 0B -0.1688E 0F
55.5N	-0.1327E 0V -0.6V61E 0B -0.1161E 0F -0.9V32E 0B -0.1160E 0V -0.1038E 0V -0.6.11.6E 0V -0.8V75E 0B -0.7V07E 0B -0.5V55E 0B -0.5865E 0B -0.8V83E 0F 0.1368E 0B
56.5N	-0.2411E 0V -0.1271E 0V -0.1973E 0V -0.1895E 0V -0.1885E 0V -0.1136E 0V -0.1060E 0V -0.7880E 0B -0.6580E 0B -0.8038E 0B -0.3041E 0B -0.1372E 0B 0.4807E 0F 0.1663E 0B
57.5N	-0.2691E 0V -0.1271E 0V -0.1251E 0V -0.1618E 0V -0.1238E 0V -0.145VE 0V -0.9V25E 0B -0.8898E 0B -0.6003E 0B -0.6V88E 0B -0.2181E 0B -0.4525E 0F 0.1863E 0B
58.5N	-0.2V53E 0V -0.8618E 0B -0.1028E 0V -0.7127E 0B -0.9887E 0B -0.8V93E 0B -0.2428E 0B -0.5658E 0B -0.2384E 0B 0.8862E 0F 0.1729E 0B 0.5284E 0B
59.5N	-0.1188E 0V -0.5V51E 0B -0.4188E 0B -0.6875E 0B -0.1252E 0B -0.1659E 0B 0.4528E 0F -0.168VE 0F 0.2412E 0B 0.1883E 0B 0.48V7E 0B 0.1877E 0B 0.5V82E 0B
60.5N	0.8817E 0B 0.3271E 0B 0.7682E 0B 0.5550E 0B 0.5193E 0B 0.4367E 0B 0.4377E 0B 0.5228E 0B 0.5381E 0B 0.6V01E 0B 0.5115E 0B 0.485V8E 0B 0.5188E 0B 0.1877E 0B
61.5N	0.1803E 0V 0.4888E 0B 0.7725E 0B 0.5.5.52E 0B 0.5.5.52E 0B 0.5.588E 0B 0.1278E 0B 0.1857E 0B -0.9288E 0F -0.7178E 0F -0.1583E 0B
62.5N	0.10V9E 0V 0.885V8E 0B 0.4870E 0B -0.9V52E 0F 0.1118E 0B -0.2185E 0B -0.5187E 0F 0.6V88E 0B -0.5828E 0B -0.1293E 0B -0.7061E 0F -0.1205E 0B

FOURIER EXPANSION OF THE STREAM FUNCTION-COMPONENT NO. 9

[illegible]

35.10

57.5%	0.1565E D9	-0.9522E D8	0.7095E D8	0.4451E D8	0.4616E D7	-0.1449E D8
52.5%	0.6176E D8	0.1847E D8	-0.1245E D8	-0.2440E D8	-0.2295E D8	-0.1946E D8
47.5%	-0.3471E D8	-0.4465E D8	-0.5731E D8	-0.5558E D8	-0.4451E D8	-0.4007E D8
42.5%	-0.2543E D8	-0.2533E D8	-0.2460E D8	-0.8873E D8	-0.9450E D8	-0.8316E D8
37.5%	-0.1192E D9	-0.7645E D8	-0.1354E D9	-0.2974E D8	-0.1451E D9	-0.1213E D9
32.5%	-0.2167E D9	-0.1477E D9	-0.1489E D9	-0.1777E D9	-0.1409E D9	-0.1321E D9
27.5%	-0.5257E D9	-0.1417E D9	-0.1984E D9	-0.1419E D9	-0.1463E D9	-0.1176E D9
22.5%	-0.2117E D9	-0.4418E D8	-0.1606E D9	-0.1024E D9	-0.1269E D9	-0.8675E D8
17.5%	-0.1093E D9	-0.4242E D8	-0.4533E D8	-0.4066E D8	-0.6350E D8	-0.2572E D8
12.5%	0.4254E D8	0.5078E D8	0.5022E D8	0.4464E D8	0.5457E D8	0.4007E D8
7.5%	0.1201E D9	0.5744E D8	0.4173E D8	0.4472E D8	0.5532E D8	0.2732E D8
2.5%	0.1011E D9	0.2717E D8	0.4162E D8	0.5146E D8	0.1441E D8	0.5691E D8
						0.7405E D7
						-0.6763E D7
						-0.7490E D7

[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION. COMPONENT NO. 12

[illegible]

FOURIER EXPANSION OF THE STEADY FUNCTION, COMPOUND NO. 15

	02.5N	07.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5N	87.5N	92.5N	97.5N
57.5N																				
52.5N																				
47.5N																				
42.5N																				
37.5N																				
32.5N																				
27.5N																				
22.5N																				
17.5N																				
12.5N																				
07.5N																				
02.5N																				

0.8917E 08 0.7955E 08 0.6008E 08 0.4115E 08 0.1462E 08 -0.7741E 07

0.4455E 08 0.2278E 08 -0.4195E 07 -0.1402E 08 -0.1639E 08 -0.1408E 08 -0.5455E 07

-0.2681E 08 -0.5095E 08 -0.5946E 08 -0.4954E 08 -0.5176E 08 -0.4418E 08 -0.5168E 08 -0.1674E 08 -0.5446E 07 0.6376E 07 -0.8222E 06

-0.2231E 08 -0.2175E 08 -0.4436E 08 -0.7371E 08 -0.8045E 08 -0.8766E 08 -0.7995E 08 -0.7267E 08 -0.6521E 08 -0.4665E 08 -0.2464E 08 -0.4184E 07

-0.4923E 08 -0.6766E 08 -0.9524E 08 -1.1224E 09 -0.1046E 09 -0.1334E 09 -0.9055E 08 -0.7470E 08 -0.5714E 08 -0.3945E 08 -0.1482E 08 0.6768E 07

-0.1846E 09 -0.1428E 09 -0.1555E 09 -0.1465E 09 -0.1374E 09 -0.1231E 09 -0.8774E 08 -0.8774E 08 -0.8180E 08 -0.6046E 08 -0.2152E 08 -0.2970E 07 0.1064E 08

-0.1719E 09 -0.1531E 09 -0.1402E 09 -0.1255E 09 -0.1132E 09 -0.1020E 09 -0.1142E 09 -0.9454E 08 -0.7142E 08 -0.4876E 08 -0.2864E 08 -0.9145E 07 0.7574E 07

-0.1170E 09 -0.1053E 09 -0.1155E 09 -0.1155E 09 -0.1155E 09 -0.1155E 09 -0.6577E 08 -0.4577E 08 -0.2656E 08 -0.1088E 08 -0.4424E 07 0.1088E 08 0.2092E 06

-0.0446E 08 -0.7254E 08 -0.5174E 08 -0.3703E 08 -0.2403E 08 -0.1403E 08 -0.4403E 08 -0.2588E 08 -0.1124E 08 0.2564E 08 0.2631E 08 0.2675E 08

0.2644E 07 0.2464E 08 0.2464E 08 0.2464E 08 0.2464E 08 0.2464E 08 0.3749E 08 0.4265E 08 0.4265E 08 0.5591E 08 0.2868E 08 0.1444E 08

0.4405E 08 0.6149E 08 0.7415E 08 0.8051E 08 0.8782E 08 0.9158E 08 0.9464E 08 0.9684E 08 0.9804E 08 0.9844E 08 0.9884E 08 0.9924E 08

0.4465E 08 0.4452E 08 0.4440E 08 0.4428E 08 0.4416E 08 0.4404E 08 0.4392E 08 0.4380E 08 0.4368E 08 0.4356E 08 0.4344E 08 0.4332E 08

02.5E 07.5E

0.7750E 08 0.7282E 08 0.5660E 08 0.5943E 08 0.1529E 08 -0.6062E 07

0.5409E 08 0.2226E 08 -0.2827E 07 -0.1266E 08 -0.1673E 08 -0.1562E 08 -0.5195E 07

0.30446 0.0 -0.20076 0.0 -0.45888 0.0 -0.47056 0.0 -0.50156 0.0 -0.43646 0.0 -0.31896 0.0 -0.17426 0.0 -0.44096 0.0 -0.56976 0.0 -0.38896 0.6

$\beta_0 = -0.7152E-08$, $\beta_1 = -0.6254E-08$, $\beta_2 = -0.6636E-08$, $\beta_3 = -0.2521E-08$, $\beta_4 = -0.4939E-07$

0.5430E 07

FURTHER EXPANSION OF THE STATE FUNCTION COMPONENT NE , IS

62.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5
57.5m															
52.5m										0.875SL OR 0.6847E OR 0.5268E OR 0.5748E OR 0.1557E OR -0.4661E OF					
47.5m										0.5406E OR 0.2103E OR -0.2040E OF -0.1187E OR -0.1361E OR -0.1255E OR -0.4446E OF					
42.5m										-0.2305E OR -0.2861E OR -0.3585E OR -0.4480E OR -0.4686E OR -0.4244E OR -0.5168E OR -0.1801E OR -0.4826E OF 0.5076E OF -0.8127E 35					
37.5m										-0.4819E OR -0.1782E OR -0.1782E OR -0.9185E OR -0.2787E OR -0.1000E OF -0.9988E OR -0.8600E OR -0.7456E OR -0.5791E OR -0.4046E OR -0.1766E OR 0.4128E OF					
32.5m										-0.1378E OR -0.1602E OR -0.1441E OR -0.1599E OR -0.1550E OR -0.1210E OR -0.1077E OR -0.8960E OR -0.7408E OR -0.5824E OR -0.4177E OR -0.2424E OR -0.5589E OF 0.4266E OF					
27.5m										-0.1600E OR -0.1494E OR -0.1581E OR -0.1447E OR -0.1505E OR -0.1285E OR -0.1126E OR -0.9766E OR -0.8160E OR -0.6699E OR -0.5012E OR -0.3071E OR -0.1145E OR 0.5488E OF					
22.5m										-0.1542E OR -0.1693E OR -0.1252E OR -0.1158E OR -0.1087E OR -0.9475E OR -0.8293E OR -0.6815E OR -0.5274E OR -0.4088E OR -0.2651E OR -0.7466E OF 0.7841E OF 0.1826E OR					
17.5m										-0.4452E OR -0.5688E OR -0.7168E OR -0.5665E OR -0.5794E OR -0.4124E OR -0.5650E OR -0.2548E OR -0.1463E OR -0.1935E OR 0.7414E OF 0.2711E OR 0.2527E OR 0.2471E OR					
12.5m										-0.1205E OR 0.1537E OR 0.1207E OR 0.1577E OR 0.1374E OR 0.2061E OR 0.2196E OR 0.2701E OR 0.3457E OR 0.5155E OR 0.3994E OR 0.5317E OR 0.2710E OR 0.1447E OR					
07.5m										0.0377E OR 0.2743E OR 0.6611E OR 0.5266E OR 0.4519E OR 0.5566E OR 0.1461E OR 0.8283E OF -0.4695E OF -0.5253E OF					

FOURIER EXPANSION OF THE STRAIN FUNCTION-COMPONENT NO. 16

	42.5N	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5N	87.5	92.5N	97.5	102.5N	107.5	112.5	117.5	122.5	127.5	132.5	137.5	142.5N	147.5	152.5N	157.5	162.5N	167.5	172.5	177.5	182.5N	187.5	192.5N	197.5	202.5N	207.5	212.5	217.5	222.5	227.5	232.5	237.5	242.5N	247.5	252.5N	257.5	262.5N	267.5	272.5	277.5	282.5N	287.5	292.5N	297.5	302.5N	307.5	312.5	317.5	322.5N	327.5	332.5N	337.5	342.5N	347.5	352.5N	357.5	362.5N	367.5	372.5	377.5	382.5N	387.5	392.5N	397.5	402.5N	407.5	412.5	417.5	422.5N	427.5	432.5N	437.5	442.5N	447.5	452.5N	457.5	462.5N	467.5	472.5	477.5	482.5N	487.5	492.5N	497.5	502.5N	507.5	512.5	517.5	522.5N	527.5	532.5N	537.5	542.5N	547.5	552.5N	557.5	562.5N	567.5	572.5	577.5	582.5N	587.5	592.5N	597.5	602.5N	607.5	612.5	617.5	622.5N	627.5	632.5N	637.5	642.5N	647.5	652.5N	657.5	662.5N	667.5	672.5	677.5	682.5N	687.5	692.5N	697.5	702.5N	707.5	712.5	717.5	722.5N	727.5	732.5N	737.5	742.5N	747.5	752.5N	757.5	762.5N	767.5	772.5	777.5	782.5N	787.5	792.5N	797.5	802.5N	807.5	812.5	817.5	822.5N	827.5	832.5N	837.5	842.5N	847.5	852.5N	857.5	862.5N	867.5	872.5	877.5	882.5N	887.5	892.5N	897.5	902.5N	907.5	912.5	917.5	922.5N	927.5	932.5N	937.5	942.5N	947.5	952.5N	957.5	962.5N	967.5	972.5	977.5	982.5N	987.5	992.5N	997.5	1002.5N	1007.5	1012.5	1017.5	1022.5N	1027.5	1032.5N	1037.5	1042.5N	1047.5	1052.5N	1057.5	1062.5N	1067.5	1072.5	1077.5	1082.5N	1087.5	1092.5N	1097.5	1102.5N	1107.5	1112.5	1117.5	1122.5N	1127.5	1132.5N	1137.5	1142.5N	1147.5	1152.5N	1157.5	1162.5N	1167.5	1172.5	1177.5	1182.5N	1187.5	1192.5N	1197.5	1202.5N	1207.5	1212.5	1217.5	1222.5N	1227.5	1232.5N	1237.5	1242.5N	1247.5	1252.5N	1257.5	1262.5N	1267.5	1272.5	1277.5	1282.5N	1287.5	1292.5N	1297.5	1302.5N	1307.5	1312.5	1317.5	1322.5N	1327.5	1332.5N	1337.5	1342.5N	1347.5	1352.5N	1357.5	1362.5N	1367.5	1372.5	1377.5	1382.5N	1387.5	1392.5N	1397.5	1402.5N	1407.5	1412.5	1417.5	1422.5N	1427.5	1432.5N	1437.5	1442.5N	1447.5	1452.5N	1457.5	1462.5N	1467.5	1472.5	1477.5	1482.5N	1487.5	1492.5N	1497.5	1502.5N	1507.5	1512.5	1517.5	1522.5N	1527.5	1532.5N	1537.5	1542.5N	1547.5	1552.5N	1557.5	1562.5N	1567.5	1572.5	1577.5	1582.5N	1587.5	1592.5N	1597.5	1602.5N	1607.5	1612.5	1617.5	1622.5N	1627.5	1632.5N	1637.5	1642.5N	1647.5	1652.5N	1657.5	1662.5N	1667.5	1672.5	1677.5	1682.5N	1687.5	1692.5N	1697.5	1702.5N	1707.5	1712.5	1717.5	1722.5N	1727.5	1732.5N	1737.5	1742.5N	1747.5	1752.5N	1757.5	1762.5N	1767.5	1772.5	1777.5	1782.5N	1787.5	1792.5N	1797.5	1802.5N	1807.5	1812.5	1817.5	1822.5N	1827.5	1832.5N	1837.5	1842.5N	1847.5	1852.5N	1857.5	1862.5N	1867.5	1872.5	1877.5	1882.5N	1887.5	1892.5N	1897.5	1902.5N	1907.5	1912.5	1917.5	1922.5N	1927.5	1932.5N	1937.5	1942.5N	1947.5	1952.5N	1957.5	1962.5N	1967.5	1972.5	1977.5	1982.5N	1987.5	1992.5N	1997.5	2002.5N	2007.5	2012.5	2017.5	2022.5N	2027.5	2032.5N	2037.5	2042.5N	2047.5	2052.5N	2057.5	2062.5N	2067.5	2072.5	2077.5	2082.5N	2087.5	2092.5N	2097.5	2102.5N	2107.5	2112.5	2117.5	2122.5N	2127.5	2132.5N	2137.5	2142.5N	2147.5	2152.5N	2157.5	2162.5N	2167.5	2172.5	2177.5	2182.5N	2187.5	2192.5N	2197.5	2202.5N	2207.5	2212.5	2217.5	2222.5N	2227.5	2232.5N	2237.5	2242.5N	2247.5	2252.5N	2257.5	2262.5N	2267.5	2272.5	2277.5	2282.5N	2287.5	2292.5N	2297.5	2302.5N	2307.5	2312.5	2317.5	2322.5N	2327.5	2332.5N	2337.5	2342.5N	2347.5	2352.5N	2357.5	2362.5N	2367.5	2372.5	2377.5	2382.5N	2387.5	2392.5N	2397.5	2402.5N	2407.5	2412.5	2417.5	2422.5N	2427.5	2432.5N	2437.5	2442.5N	2447.5	2452.5N	2457.5	2462.5N	2467.5	2472.5	2477.5	2482.5N	2487.5	2492.5N	2497.5	2502.5N	2507.5	2512.5	2517.5	2522.5N	2527.5	2532.5N	2537.5	2542.5N	2547.5	2552.5N	2557.5	2562.5N	2567.5	2572.5	2577.5	2582.5N	2587.5	2592.5N	2597.5	2602.5N	2607.5	2612.5	2617.5	2622.5N	2627.5	2632.5N	2637.5	2642.5N	2647.5	2652.5N	2657.5	2662.5N	2667.5	2672.5	2677.5	2682.5N	2687.5	2692.5N	2697.5	2702.5N	2707.5	2712.5	2717.5	2722.5N	2727.5	2732.5N	2737.5	2742.5N	2747.5	2752.5N	2757.5	2762.5N	2767.5	2772.5	2777.5	2782.5N	2787.5	2792.5N	2797.5	2802.5N	2807.5	2812.5	2817.5	2822.5N	2827.5	2832.5N	2837.5	2842.5N	2847.5	2852.5N	2857.5	2862.5N	2867.5	2872.5	2877.5	2882.5N	2887.5	2892.5N	2897.5	2902.5N	2907.5	2912.5	2917.5	2922.5N	2927.5	2932.5N	2937.5	2942.5N	2947.5	2952.5N	2957.5	2962.5N	2967.5	2972.5	2977.5	2982.5N	2987.5	2992.5N	2997.5	3002.5N	3007.5	3012.5	3017.5	3022.5N	3027.5	3032.5N	3037.5	3042.5N	3047.5	3052.5N	3057.5	3062.5N	3067.5	3072.5	3077.5	3082.5N	3087.5	3092.5N	3097.5	3102.5N	3107.5	3112.5	3117.5	3122.5N	3127.5	3132.5N	3137.5	3142.5N	3147.5	3152.5N	3157.5	3162.5N	3167.5	3172.5	3177.5	3182.5N	3187.5	3192.5N	3197.5	3202.5N	3207.5	3212.5	3217.5	3222.5N	3227.5	3232.5N	3237.5	3242.5N	3247.5	3252.5N	3257.5	3262.5N	3267.5	3272.5	3277.5	3282.5N	3287.5	3292.5N	3297.5	3302.5N	3307.5	3312.5	3317.5	3322.5N	3327.5	3332.5N	3337.5	3342.5N	3347.5	3352.5N	3357.5	3362.5N	3367.5	3372.5	3377.5	3382.5N	3387.5	3392.5N	3397.5	3402.5N	3407.5	3412.5	3417.5	3422.5N	3427.5	3432.5N	3437.5	3442.5N	3447.5	3452.5N	3457.5	3462.5N	3467.5	3472.5	3477.5	3482.5N	3487.5	3492.5N	3497.5	3502.5N	3507.5	3512.5	3517.5	3522.5N	3527.5	3532.5N	3537.5	3542.5N	3547.5	3552.5N	3557.5	3562.5N	3567.5	3572.5	3577.5	3582.5N	3587.5	3592.5N	3597.5	3602.5N	3607.5	3612.5	3617.5	3622.5N	3627.5	3632.5N	3637.5	3642.5N	3647.5	3652.5N	3657.5	3662.5N	3667.5	3672.5	3677.5	3682.5N	3687.5	3692.5N	3697.5	3702.5N	3707.5	3712.5	3717.5	3722.5N	3727.5	3732.5N	3737.5	3742.5N	3747.5	3752.5N	3757.5	3762.5N	3767.5	3772.5	3777.5	3782.5N	3787.5	3792.5N	3797.5	3802.5N	3807.5	3812.5	3817.5	3822.5N	3827.5	3832.5N	3837.5	3842.5N	3847.5	3852.5N	3857.5	3862.5N	3867.5	3872.5	3877.5	3882.5N	3887.5	3892.5N	3897.5	3902.5N	3907.5	3912.5	3917.5	3922.5N	3927.5	3932.5N	3937.5	3942.5N	3947.5	3952.5N	3957.5	3962.5N	3967.5	3972.5	3977.5	3982.5N	3987.5	3992.5N	3997.5	4002.5N	4007.5	4012.5	4017.5	4022.5N	4027.5	4032.5N	4037.5	4042.5N	4047.5	4052.5N	4057.5	4062.5N	4067.5	4072.5	4077.5	4082.5N	4087.5	4092.5N	4097.5	4102.5N	4107.5	4112.5	4117.5	4122.5N	4127.5	4132.5N	4137.5	4142.5N	4147.5	4152.5N	4157.5	4162.5N	4167.5	4172.5	4177.5	4182.5N	4187.5	4192.5N	4197.5	4202.5N	4207.5	4212.5	4217.5	4222.5N	4227.5	4232.5N	4237.5	4242.5N	4247.5	4252.5N	4257.5	4262.5N	4267.5	4272.5	4277.5	4282.5N	4287.5	4292.5N	4297.5	4302.5N	4307.5	4312.5	4317.5	4322.5N	4327.5	4332.5N	4337.5	4342.5N	4347.5	4352.5N	4357.5	4362.5N	4367.5	4372.5	4377.5	4382.5N	4387.5	4392.5N	4397.5	4402.5N	4407.5	4412.5	4417.5	4422.5N	4427.5	4432.5N	4437.5	4442.5N	4447.5	4452.5N	4457.5	4462.5N	4467.5	4472.5	4477.5	4482.5N	4487.5	4492.5N	4497.5	4502.5N	4507.5	4512.5	4517.5	4522.5N	4527.5	4532.5N	4537.5	4542.5N	4547.5	4552.5N	4557.5	4562.5N	4567.5	4572.5	4577.5	4582.5N	4587.5	4592.5N	4597.5	4602.5N	4607.5	4612.5	4617.5	4622.5N	4627.5	4632.5N	4637.5	4642.5N	4647.5	4652.5N	4657.5	4662.5N	4667.5	4672.5	4677.5	4682.5N	4687.5	4692.5N	4697.5	4702.5N	4707.5	4712.5	4717.5	4722.5N	4727.5	4732.5N	4737.5	4742.5N	4747.5	4752.5N	4757.5	4762.5N	4767.5	4772.5	4777.5	4782.5N	4787.5	4792.5N	4797.5	4802.5N	4807.5	4812.5	4817.5	4822.5N	4827.5	4832.5N	4837.5	4842.5N	4847.5	4852.5N	4857.5	4862.5N	4867.5	4872.5	4877.5	4882.5N	4887.5	4892.5N	4897.5	4902.5N	4907.5	4912.5	4917.5	4922.5N	4927.5	4932.5N	4937.5	4942.5N	4947.5	4952.5N	4957.5	4962.5N	4967.5	4972.5	4977.5	4982.5N	4987.5	4992.5N	4997.5	5002.5N	5007.5	5012.5	5017.5	5022.5N	5027.5	5032.5N	5037.5	5042.5N	5047.5	5052.5N	5057.5	5062.5N	5067.5	5072.5	5077.5	5082.5N	5087.5	5092.5N	5097.5	5102.5N	5107.5	5112.5	5117.5	5122.5N	5127.5	5132.5N	5137.5	5142.5N	5147.5	5152.5N	5157.5	5162.5N	5167.5	5172.5	5177.5	5182.5N	5187.5	5192.5N	5197.5	5202.5N	5207.5	5212.5	5217.5	5222.5N	5227.5	5232.5N	5237.5	5242.5N	5247.5	5252.5N	5257.5	5262.5N	5267.5	5272.5	5277.5	5282.5N	5287.5	5292.5N	5297.5	5302.5N	5307.5	5312.5	5317.5	5322.5N	5327.5	5332.5N	5337.5	5342.5N	5347.5	5352.5N	5357.5	5362.5N	5367.5	5372.5	5377.5	5382.5N	5387.5	5392.5N	5397.5	5402.5N	5407.5	5412.5	5417.5	5422.5N	5427.5	5432.5N	5437.5	5442.5N	5447.5	5452.5N	5457.5	5462.5N	5467.5	5472.5	5477.5	5482.5N	5487.5	5492.5N	5497.5	5502.5N	5507.5	5512.5	5517.5	552
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FRONTIER EXPANSION OF THE STRAW FUELLED COMMUNITY INC. 17

07.5E

02.5E

02.5W

07.5

12.5

17.5

22.5

27.5

32.5

37.5

42.5

47.5

52.5

57.5

62.5

67.5

72.5

77.5

82.5W

87.5W

92.5W

97.5W

0.5186E 0B 0.5461E 0B 0.4496E 0B 0.5322E 0B 0.1527E 0B -0.2584E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

0.2558E 0B 0.1754E 0B -0.1681E 0T -0.4914E 0T -0.1165E 0B -0.1094E 0B -0.4539E 0T

02.5W

07.5W

12.5W

17.5W

22.5W

27.5W

32.5W

37.5W

42.5W

47.5W

52.5W

57.5W

62.5W

67.5W

72.5W

77.5W

82.5W

87.5W

92.5W

97.5W

[illegible]

[illegible]

57.5%	0.1655E 08 0.1207E 08 -0.2635E 07 -0.0255E 07 -0.1047E 08 -0.9589E 07 -0.0194E 07	0.5598E 08 0.4050E 08 0.5405E 08 0.2691E 08 0.1364E 08 -0.8032E 06	07.5%	02.5%
52.5%	-0.1711E 08 -0.2408E 08 -0.5049E 08 -0.5079E 08 -0.4087E 08 -0.3857E 08 -0.3079E 08 -0.1945E 08 -0.7560E 07 0.2161E 07 0.3508E 06		12.5%	02.5%
47.5%	-0.1645E 08 -0.1424E 08 -0.2978E 08 -0.5180E 08 -0.6547E 08 -0.6779E 08 -0.6717E 08 -0.5855E 08 -0.4408E 08 -0.2711E 08 -0.8181E 07			
42.5%	-0.5859E 08 -0.4402E 08 -0.7155E 08 -0.8557E 08 -0.8754E 08 -0.8880E 08 -0.8189E 08 -0.7682E 08 -0.5899E 08 -0.4225E 08 -0.2215E 08 -0.1316E 07			
37.5%	-0.8721E 08 -0.1081E 08 -0.1168E 08 -0.1152E 08 -0.1045E 08 -0.8734E 08 -0.7462E 08 -0.6086E 08 -0.4522E 08 -0.2901E 08 -0.1144E 08 0.3214E 07			
32.5%	-0.4592E 08 -0.1241E 08 -0.1255E 08 -0.1150E 08 -0.1034E 08 -0.9331E 08 -0.7954E 08 -0.6671E 08 -0.5320E 08 -0.5471E 08 -0.1653E 08 0.3555E 06			
27.5%	-0.1025E 08 -0.1024E 08 -0.1016E 08 -0.9918E 08 -0.9038E 08 -0.6810E 08 -0.4832E 08 -0.3445E 08 -0.2430E 08 -0.3101E 08 -0.1468E 08 0.8322E 06 0.1215E 08			
22.5%	-0.7133E 08 -0.6676E 08 -0.6055E 08 -0.5714E 08 -0.4763E 08 -0.4167E 08 -0.3036E 08 -0.1873E 08 -0.08497E 37 -0.4922E 06 0.1117E 08 0.1764E 08 0.1852E 08			
17.5%	-0.7329E 08 -0.6840E 07 -0.5401E 07 -0.4496E 07 0.7550E 08 0.6455E 07 0.1265E 08 0.3466E 08 0.2471E 08 0.2672E 08 0.2635E 08 0.2204E 08 0.1509E 08			
12.5%				
07.5%	0.2460E 08 0.5157E 08 0.4594E 08 0.4271E 08 0.3157E 08 0.3175E 08 0.1994E 08 0.1114E 08 -0.5324E 06 -3.4081E 07			
02.5%				

[illegible]

07.54

37.5N	0.26781	0.6	0.35364	0.0	0.27931E	0.0	0.23171	0.0	0.12276	0.0	-0.16176	0.0
32.5N	0.12934	0.0	0.00351	0.7	-0.34601	0.7	-0.42346	0.7	-0.10156	0.0	-0.96961	0.7
27.5N	-0.15304	0.4	-0.0.2101E	0.0	-0.20746	0.0	-0.14443	0.0	-0.16574	0.0	-0.29634	0.0
22.5N	-0.14626	0.0	-0.14626	0.0	-0.26053	0.0	-0.04653	0.0	-0.57703	0.0	-0.04653	0.0
17.5N	-0.31626	0.0	-0.14626	0.0	-0.04653	0.0	-0.04653	0.0	-0.04653	0.0	-0.04653	0.0
12.5N	-0.31626	0.0	-0.14626	0.0	-0.04653	0.0	-0.04653	0.0	-0.04653	0.0	-0.04653	0.0
07.5N	-0.31626	0.0	-0.14626	0.0	-0.04653	0.0	-0.04653	0.0	-0.04653	0.0	-0.04653	0.0

[illegible]

FOURIER EXPANSION OF THE STEAM FUNCTION, COMPONENT NO. 24

	02.5M	07.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5M	07.5M	02.5M	07.5M
57.5N																				
52.5N																				
47.5N																				
42.5N																				
37.5N																				
32.5N																				
27.5N																				
22.5N																				
17.5N																				
12.5N																				
7.5N																				
32.5N																				

0.2559E JB 0.2706E DB 0.2473E DB 0.1992E DB 0.1091E DB 0.1729E DB

0.9415E UF 0.6604E UF -0.9206E UF -0.9946E UF -0.8741E UF -0.4027E UF

-0.1182E DB -0.2155E DB -0.2701E DB -0.3226E DB -0.3592E DB -0.3666E DB -0.2872E DB -0.1920E DB -0.8573E UF 0.5440E DB 0.1927E DB

-0.1533E DB -0.1743E DB -0.2468E DB -0.4225E DB -0.5472E DB -0.6025E DB -0.5555E DB -0.5041E DB -0.5136E DB -0.4365E DB -0.9555E UF

-0.4421E DB -0.5442E DB -0.6255E DB -0.6593E DB -0.7205E DB -0.7696E DB -0.7435E DB -0.6341E DB -0.5397E DB -0.4107E DB -0.2341E DB -0.4116E UF

-0.6117E DB -0.4503E DB -0.4624E DB -0.4485E DB -0.4935E DB -0.5600E DB -0.5036E DB -0.4031E DB -0.3076E DB -0.1407E DB 0.5719E DB

-0.6163E DB -0.4266E DB -0.1072E DB -0.1072E DB -0.1218E DB -0.1020E DB -0.5941E DB -0.6441E DB -0.5632E DB -0.1928E DB -0.2561E UF

-0.7118E DB -0.6921E DB -0.6444E DB -0.4974E DB -0.4837E DB -0.7604E DB -0.6613E DB -0.5496E DB -0.4396E DB -0.3293E DB -0.1856E DB -0.3616E UF 0.8058E UF

-0.5276E DB -0.5831E DB -0.6055E DB -0.5815E DB -0.5481E DB -0.4485E DB -0.4519E DB -0.3458E DB -0.2385E DB -0.1380E DB -0.6171E UF 0.4935E UF 0.1223E DB 0.1457E DB

-0.2344E DB -0.1670E DB -0.1177E DB -0.1242E DB -0.1261E DB -0.1057E DB -0.8821E UF 0.2608E UF 0.1604E DB 0.1995E DB 0.2097E DB 0.2065E DB 0.1888E DB 0.1161E DB

0.1563E DB 0.2255E DB 0.5048E DB 0.8189E DB 0.2998E DB 0.1604E DB 0.1995E DB 0.2097E DB 0.2065E DB 0.1888E DB 0.1161E DB

0.5076E DB 0.5165E DB 0.2437E DB 0.1783E DB 0.1077E DB 0.4211E UF -0.8903E DB -0.3556E UF -0.1885E UF -0.8044E DB -0.1513E UF -0.2623E UF

[illegible]

57.5N	0.2120E 06 0.2551E 08 -0.2275E 08 0.1028E 08 0.2836E 06
58.5N	0.4820E 07 0.5600E 07 -0.4480E 07 -0.9262E 07 -0.9851E 07 -0.3594E 07 -0.4004E 07
47.5N	-0.1512E 08 -0.2034E 08 -0.2614E 08 -0.3122E 08 -0.3476E 08 -0.5371E 08 -0.2811E 08 -0.1900E 08 -0.8855E 07 0.2417E 06 0.1405E 06
42.5N	-0.1462E 08 -0.2108E 08 -0.2364E 08 -0.4025E 08 -0.5237E 08 -0.5797E 08 -0.5761E 08 -0.5001E 08 -0.4078E 08 -0.2834E 08 -0.9516E 07
37.5N	-0.4010E 08 -0.5162E 08 -0.6514E 08 -0.6428E 08 -0.7522E 08 -0.7694E 08 -0.7229E 08 -0.6195E 08 -0.531E 08 -0.4055E 08 -0.234E 08 -0.4617E 07
32.5N	-0.5615E 08 -0.7482E 08 -0.9455E 08 -0.9551E 08 -0.9551E 08 -0.9551E 08 -0.9494E 08 -0.8685E 08 -0.8531E 08 -0.5689E 08 -0.1452E 08 -0.1551E 06
27.5N	-0.5755E 08 -0.4618E 08 -0.9461E 08 -0.1026E 08 -0.9461E 08 -0.9461E 08 -0.9461E 08 -0.9461E 08 -0.9461E 08 -0.9461E 08 -0.9461E 08 -0.9461E 08
22.5N	-0.6492E 08 -0.8057E 08 -0.8557E 08 -0.8557E 08 -0.8557E 08 -0.8557E 08 -0.8557E 08 -0.8557E 08 -0.8557E 08 -0.8557E 08 -0.8557E 08 -0.8557E 08
17.5N	-0.6892E 08 -0.5561E 08 -0.5694E 08 -0.5694E 08 -0.5694E 08 -0.5694E 08 -0.5694E 08 -0.5694E 08 -0.5694E 08 -0.5694E 08 -0.5694E 08 -0.5694E 08
12.5N	-0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08 -0.1425E 08
36.5N	0.1094E 08 0.1425E 08 0.2764E 08 0.2764E 08 0.2764E 08 0.2764E 08 0.2764E 08 0.2764E 08 0.2764E 08 0.2764E 08 0.2764E 08
22.5N	0.2762E 08 0.2461E 08 0.2315E 08 0.1718E 08 0.1044E 08 0.4427E 07 -0.5446E 06 -0.5673E 07 -0.1760E 07 -0.8262E 06 -0.1370E 07 -0.2443E 07

[illegible]

07.54

0.1760E 08 0.2120E 08 0.1934E 08 0.1593E 08 0.9058E 07 0.4171E 06

Variable	Mean	SD	Min	Max	Skewness	Kurtosis
Age	38.5	12.5	18	65	-0.1	3.2
Gender	0.5	0.5	0	1	0.0	3.0
Marital Status	0.6	0.5	0	1	0.0	3.0
Education	12.5	2.5	9	16	-0.2	3.1
Income	45000	15000	20000	80000	0.5	3.5
Health	0.8	0.2	0	1	-0.5	3.8
Stress	0.7	0.3	0	1	0.0	3.0
Depression	0.4	0.4	0	1	0.0	3.0
Life Satisfaction	0.6	0.3	0	1	-0.1	3.2
Resilience	0.5	0.3	0	1	0.0	3.0
Optimism	0.6	0.3	0	1	-0.1	3.2
Gratitude	0.5	0.3	0	1	0.0	3.0
Forgiveness	0.4	0.4	0	1	0.0	3.0
Empathy	0.6	0.3	0	1	-0.1	3.2
Self-Compassion	0.5	0.3	0	1	0.0	3.0
Emotional Stability	0.7	0.2	0	1	-0.2	3.1
Psychological Well-being	0.6	0.3	0	1	-0.1	3.2
Life Purpose	0.5	0.3	0	1	0.0	3.0
Meaning in Life	0.6	0.3	0	1	-0.1	3.2
Existential Well-being	0.5	0.3	0	1	0.0	3.0
Transcendental Well-being	0.4	0.4	0	1	0.0	3.0
Humanistic Well-being	0.5	0.3	0	1	0.0	3.0
Postmodern Well-being	0.6	0.3	0	1	-0.1	3.2
Contemporary Well-being	0.5	0.3	0	1	0.0	3.0
Traditional Well-being	0.4	0.4	0	1	0.0	3.0
Religious Well-being	0.5	0.3	0	1	0.0	3.0
Spiritual Well-being	0.6	0.3	0	1	-0.1	3.2
Philosophical Well-being	0.5	0.3	0	1	0.0	3.0
Artistic Well-being	0.4	0.4	0	1	0.0	3.0
Scientific Well-being	0.5	0.3	0	1	0.0	3.0
Technological Well-being	0.6	0.3	0	1	-0.1	3.2
Environmental Well-being	0.5	0.3	0	1	0.0	3.0
Social Well-being	0.4	0.4	0	1	0.0	3.0
Cultural Well-being	0.5	0.3	0	1	0.0	3.0
Economic Well-being	0.6	0.3	0	1	-0.1	3.2
Political Well-being	0.5	0.3	0	1	0.0	3.0
Legal Well-being	0.4	0.4	0	1	0.0	3.0
Ethical Well-being	0.5	0.3	0	1	0.0	3.0
Moral Well-being	0.6	0.3	0	1	-0.1	3.2
Religious Freedom	0.5	0.3	0	1	0.0	3.0
Human Rights	0.4	0.4	0	1	0.0	3.0
Democracy	0.5	0.3	0	1	0.0	3.0
Justice	0.6	0.3	0	1	-0.1	3.2
Equality	0.5	0.3	0	1	0.0	3.0
Liberty	0.4	0.4	0	1	0.0	3.0
Peace	0.5	0.3	0	1	0.0	3.0
Security	0.6	0.3	0	1	-0.1	3.2
Stability	0.5	0.3	0	1	0.0	3.0
Prosperity	0.4	0.4	0	1	0.0	3.0
Well-being	0.5	0.3	0	1	0.0	3.0
Quality of Life	0.6	0.3	0	1	-0.1	3.2
Life Expectancy	0.5	0.3	0	1	0.0	3.0
Healthcare	0.4	0.4	0	1	0.0	3.0
Education	0.5	0.3	0	1	0.0	3.0
Employment	0.6	0.3	0	1	-0.1	3.2
Income	0.5	0.3	0	1	0.0	3.0
Social Security	0.4	0.4	0	1	0.0	3.0
Health Insurance	0.5	0.3	0	1	0.0	3.0
Education Insurance	0.6	0.3	0	1	-0.1	3.2
Employment Insurance	0.5	0.3	0	1	0.0	3.0
Income Insurance	0.4	0.4	0	1	0.0	3.0

$\beta = -0.1896$ $OR = -0.1896$ $OR = -0.2445$ $OR = 0.3074$ $OR = 0.3545$ $OR = 0.4105$ $OR = 0.4742$ $OR = 0.5432$ $OR = 0.6182$

[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION, COMPONENT NR. 28

	02.5M	17.5	27.5	37.5	47.5	57.5	67.5	77.5	87.5	97.5M
57.5N										02.5E
52.5N									0.1611E 08	0.1959E 08
47.5N									0.5550E 07	0.3290E 07
42.5N									-0.1120E 08	-0.2350E 08
37.5N									-0.1617E 08	-0.4571E 08
32.5N									-0.4341E 08	-0.6571E 08
27.5N									-0.4950E 08	-0.4950E 08
22.5N									-0.4453E 08	-0.4453E 08
17.5N									-0.5757E 08	-0.5757E 08
12.5N									-0.1555E 08	-0.1555E 08
7.5N									0.5019E 07	0.5019E 07
2.5N									0.5019E 07	0.5019E 07

FOURIER EXPANSION OF THE STEAM FLUX COMPONENT \dot{m}_2 , 29[illegible]

07.5£

0.1361E 08 0.1673E 08 0.155E 08 0.1285E 08 0.7505E 07 0.4845E 06

0.4524E 07 0.2216E 07 -0.5265E 07 -0.8942E 07 -0.9764E 07 -0.7901E 07 -0.3854E 07

0.10182 08 -0.1674E 08 -0.2194E 08 -0.2635E 08 -0.2944E 08 -0.2488E 08 -0.1754E 08 -0.4570E 07 -3.7946E 06 -0.9388E 05

-0.11CE 08 -0.157x 08 -0.1898E 08 -0.5173E 08 -0.4206E 08 -0.4767E 08 -0.4849E 08 -0.4687E 08 -0.4334E 08 -0.3613E 08 -0.2429E 08 -).3714E 07

-0.2781E 08 -0.5905E 08 -0.4542E 08 -0.5076E 08 -0.6125E 08 -0.6617E 08 -0.5610E 08 -0.4751E 08 -0.3718E 08 -0.2281E 08 -0.6194E 07

-0.5691E 08 -0.5771E 08 -0.6971E 08 -0.7491E 08 -0.7764E 08 -0.7809E 08 -0.8244E 08 -0.8424E 08 -0.8556E 08 -0.8710E 07

0.60146 08 -0.14576 08 -0.40276 08 -0.79792 08 -2.66316 08 -0.57016 08 -0.44046 08 -0.35546 08 -0.26926 08 -0.55216 07

0.5652e 08 -0.6645e 08 -0.7185e 08 -0.7354e 08 -0.7123e 08 -0.5994e 08 -0.5366e 08 -0.4224e 08 -0.3311e 08 -0.2102e 08 -0.7935e 07 -0.4524e 07

	0.42/SE	0d	-0.4/SE	08	-0.446CE	0d	-0.510H	0d	-0.475E	08	-0.444H	0H	-0.272E	08	-0.167H	0H	-0.167H	08	-0.519H	07	0.475H	07
0.42/SE	0d	-0.4/SE	08	-0.446CE	0d	-0.510H	0d	-0.475E	08	-0.444H	0H	-0.272E	08	-0.167H	0H	-0.167H	08	-0.519H	07	0.475H	07	

	0.12026	0.8	-0.12626	CN	-0.19886	CH	-(-.1667)	CM	-0.17046	OR	-0.14604	IR	-0.7466	VF	0.55251	NF	0.51166	OB	0.34518	OM	D	KABE	SR	B	HOPE	VZ
0.12026	0.8	-0.12626	CN	-0.19886	CH	-(-.1667)	CM	-0.17046	OR	-0.14604	IR	-0.7466	VF	0.55251	NF	0.51166	OB	0.34518	OM	D	KABE	SR	B	HOPE	VZ	

[illegible]

37.54

57.5m	0.1163L 3b	0.1436L 0b	0.1327E 0b	0.1121L 0b	0.0035M 0f	0.4027M 0b
52.5m	0.3420M 3f	0.1417E 0f	-0.5324L 0f	-0.0632E 0f	-0.8955L 0f	-0.7607L 0f
47.5m	-0.4223L 3f	-0.1539L 0b	-0.2137L 0b	-0.2459L 3b	-0.2750L 0b	-0.2727M 0b
42.5m	-0.9087E 0f	-0.1259L 0b	-0.1733L 0b	-0.0405L 3b	-0.4519L 0b	-0.4076L 0b
37.5m	-0.2422E 0b	-0.5403E 0b	-0.5194L 0b	-0.5606E 3b	-0.5295L 0b	-0.4516L 0b
32.5m	-0.3155L 0b	-0.5070E 0b	-0.6047E 0b	-0.6047E 0b	-0.6354L 3b	-0.5922E 3b
27.5m	-0.2997E 0b	-0.5264L 0b	-0.5264L 0b	-0.6799L 3b	-0.6799L 3b	-0.6799L 3b
22.5m	-0.3460E 0b	-0.5111L 0b	-0.5406E 0b	-0.6527L 3b	-0.6527L 3b	-0.6527L 3b
17.5m	-0.2098E 0b	-0.3722L 0b	-0.4479L 0b	-0.4533L 0b	-0.4479L 0b	-0.4479L 0b
12.5m	-0.1194L 0b	-0.1164E 0b	-0.1164E 0b	-0.1164E 0b	-0.1164E 0b	-0.1164E 0b
07.5m	0.7766E 0b	0.5233E 0f	0.1047E 0b	0.1590E 3b	0.1590E 3b	0.1590E 3b

07.54

[illegible]

07.54

57.5%	0.100%	0.124%	0.115%	0.085%	0.043%	0.0
55.5%	0.271%	0.426%	-0.528%	-0.657%	-0.661%	-0.366%
47.5%	-0.654%	-0.141%	-0.188%	-0.228%	-0.255%	-0.222%
42.5%	-0.474%	-0.113%	-0.157%	-0.263%	-0.419%	-0.572%
37.5%	-0.211%	-0.110%	-0.472%	-0.423%	-0.534%	-0.542%
32.5%	-0.271%	-0.440%	-0.559%	-0.653%	-0.651%	-0.651%
27.5%	-0.252%	-0.546%	-0.658%	-0.672%	-0.672%	-0.672%
22.5%	-0.446%	-0.510%	-0.625%	-0.621%	-0.545%	-0.472%
17.5%	-0.127%	-0.340%	-0.445%	-0.424%	-0.445%	-0.445%
12.5%	-0.474%	-0.103%	-0.131%	-0.104%	-0.104%	-0.104%
07.5%	-0.469%	0.513%	0.807%	0.116%	0.152%	0.152%
	0.114%	0.151%	0.150%	0.107%	0.075%	0.075%
	0.474%	-0.103%	-0.131%	-0.104%	-0.104%	-0.104%
	-0.127%	-0.340%	-0.445%	-0.424%	-0.445%	-0.445%
	-0.446%	-0.510%	-0.625%	-0.621%	-0.545%	-0.472%
	-0.271%	-0.440%	-0.559%	-0.653%	-0.651%	-0.651%
	-0.211%	-0.110%	-0.472%	-0.423%	-0.534%	-0.542%
	-0.474%	-0.113%	-0.157%	-0.263%	-0.419%	-0.572%
	-0.654%	-0.141%	-0.188%	-0.228%	-0.255%	-0.222%
	0.271%	0.426%	-0.528%	-0.657%	-0.661%	-0.366%
	0.100%	0.124%	0.115%	0.085%	0.043%	0.0

[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION-COMPONENT NO. 36

[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 37

	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5N	07.5E
82.5N																		
77.5																		
72.5																		
67.5																		
62.5																		
57.5																		
52.5																		
47.5																		
42.5N																		
37.5N																		
32.5N																		
27.5N																		
22.5N																		
17.5N																		
12.5N																		
07.5N																		
02.5N																		

0.48217E 07 0.1021E 08 0.9511E 07 0.8163E 07 0.4951E 07 0.4190E 06

0.1965E 07 0.2260E 06 -0.5108E 07 -0.7846E 07 -0.8059E 07 -0.6823E 07 -0.5477E 07

-0.7241E 07 -0.1245E 08 -0.1065E 08 -0.2313E 08 -0.2321E 08 -0.2038E 08 -0.1490E 08 -0.7950E 07 -0.1375E 07 -0.2804E 06

-0.7538E 07 -0.9789E 07 -0.1371E 08 -0.2249E 08 -0.3106E 08 -0.3709E 08 -0.3494E 08 -0.2962E 08 -0.2066E 08 -0.8968E 07

-0.1734E 08 -0.2019E 08 -0.5198E 08 -0.687E 08 -0.4190E 08 -0.4649E 08 -0.4915E 08 -0.4937E 08 -0.3152E 08 -0.2050E 08 -0.6709E 07

-0.2176E 08 -0.5697E 08 -0.4750E 08 -0.5350E 08 -0.5709E 08 -0.5880E 08 -0.5639E 08 -0.5124E 08 -0.4520E 08 -0.3700E 08 -0.2896E 08 -0.1501E 08 -0.5407E 07

-0.1984E 08 -0.5655E 08 -0.4406E 08 -0.5111E 08 -0.5489E 08 -0.6202E 08 -0.6209E 08 -0.5438E 08 -0.4683E 08 -0.4160E 08 -0.3201E 08 -0.2019E 08 -0.6905E 07

-0.2407E 08 -0.5655E 08 -0.4406E 08 -0.5111E 08 -0.5489E 08 -0.6202E 08 -0.6209E 08 -0.5438E 08 -0.4683E 08 -0.4160E 08 -0.3201E 08 -0.2019E 08 -0.6905E 07

-0.1790E 08 -0.2692E 08 -0.3255E 08 -0.3555E 08 -0.3916E 08 -0.4345E 08 -0.4845E 08 -0.5438E 08 -0.6104E 08 -0.6841E 07 0.4841E 07 0.6104E 07

-0.7688E 07 -0.8545E 07 -0.9337E 07 -0.1168E 08 -0.1463E 08 -0.1773E 08 -0.2104E 08 -0.2454E 08 -0.2824E 08 -0.3214E 08 -0.3624E 08 -0.4054E 08 -0.4504E 08 -0.4974E 08 -0.5464E 08 -0.5974E 08 -0.6504E 08 -0.7054E 08 -0.7624E 08 -0.8214E 08 -0.8824E 08 -0.9454E 08 -1.0104E 08 -1.0774E 08 -1.1464E 08 -1.2174E 08 -1.2904E 08 -1.3654E 08 -1.4424E 08 -1.5214E 08 -1.6024E 08 -1.6854E 08 -1.7704E 08 -1.8574E 08 -1.9464E 08 -2.0374E 08 -2.1304E 08 -2.2254E 08 -2.3224E 08 -2.4214E 08 -2.5224E 08 -2.6254E 08 -2.7304E 08 -2.8374E 08 -2.9464E 08 -3.0574E 08 -3.1704E 08 -3.2854E 08 -3.4024E 08 -3.5214E 08 -3.6424E 08 -3.7654E 08 -3.8904E 08 -4.0174E 08 -4.1464E 08 -4.2774E 08 -4.4104E 08 -4.5454E 08 -4.6824E 08 -4.8214E 08 -4.9624E 08 -5.1054E 08 -5.2504E 08 -5.3974E 08 -5.5464E 08 -5.6974E 08 -5.8504E 08 -5.9974E 08 -6.1464E 08 -6.2974E 08 -6.4504E 08 -6.6044E 08 -6.7604E 08 -6.9174E 08 -7.0764E 08 -7.2374E 08 -7.4004E 08 -7.5644E 08 -7.7304E 08 -7.8974E 08 -8.0664E 08 -8.2374E 08 -8.4104E 08 -8.5844E 08 -8.7604E 08 -8.9374E 08 -9.1164E 08 -9.2974E 08 -9.4804E 08 -9.6644E 08 -9.8504E 08 -10.0374E 08 -10.2254E 08 -10.4164E 08 -10.6094E 08 -10.8044E 08 -11.0014E 08 -11.2004E 08 -11.4014E 08 -11.6044E 08 -11.8094E 08 -12.0164E 08 -12.2254E 08 -12.4364E 08 -12.6494E 08 -12.8644E 08 -13.0804E 08 -13.2974E 08 -13.5164E 08 -13.7374E 08 -13.9604E 08 -14.1844E 08 -14.4104E 08 -14.6374E 08 -14.8664E 08 -15.0964E 08 -15.3274E 08 -15.5604E 08 -15.7944E 08 -16.0304E 08 -16.2674E 08 -16.5064E 08 -16.7464E 08 -16.9884E 08 -17.2314E 08 -17.4764E 08 -17.7224E 08 -17.9694E 08 -18.2184E 08 -18.4694E 08 -18.7214E 08 -18.9754E 08 -19.2304E 08 -19.4864E 08 -19.7434E 08 -20.0014E 08 -20.2604E 08 -20.5204E 08 -20.7814E 08 -21.0434E 08 -21.3064E 08 -21.5704E 08 -21.8354E 08 -22.1014E 08 -22.3684E 08 -22.6364E 08 -22.9054E 08 -23.1754E 08 -23.4464E 08 -23.7184E 08 -23.9914E 08 -24.2654E 08 -24.5404E 08 -24.8164E 08 -25.0934E 08 -25.3714E 08 -25.6504E 08 -25.9304E 08 -26.2114E 08 -26.4934E 08 -26.7764E 08 -27.0604E 08 -27.3454E 08 -27.6314E 08 -27.9184E 08 -28.2064E 08 -28.4954E 08 -28.7854E 08 -29.0764E 08 -29.3684E 08 -29.6614E 08 -29.9554E 08 -30.2504E 08 -30.5464E 08 -30.8434E 08 -31.1414E 08 -31.4404E 08 -31.7404E 08 -32.0414E 08 -32.3434E 08 -32.6464E 08 -32.9504E 08 -33.2554E 08 -33.5614E 08 -33.8684E 08 -34.1764E 08 -34.4854E 08 -34.7954E 08 -35.1064E 08 -35.4184E 08 -35.7314E 08 -36.0454E 08 -36.3604E 08 -36.6764E 08 -36.9934E 08 -37.3114E 08 -37.6304E 08 -37.9504E 08 -38.2714E 08 -38.5934E 08 -38.9164E 08 -39.2404E 08 -39.5654E 08 -39.8914E 08 -40.2184E 08 -40.5464E 08 -40.8754E 08 -41.2054E 08 -41.5364E 08 -41.8684E 08 -42.2014E 08 -42.5354E 08 -42.8704E 08 -43.2064E 08 -43.5434E 08 -43.8814E 08 -44.2204E 08 -44.5604E 08 -44.9014E 08 -45.2434E 08 -45.5864E 08 -45.9304E 08 -46.2754E 08 -46.6204E 08 -46.9664E 08 -47.3134E 08 -47.6614E 08 -48.0104E 08 -48.3594E 08 -48.7094E 08 -49.0604E 08 -49.4124E 08 -49.7654E 08 -50.1194E 08 -50.4744E 08 -50.8304E 08 -51.1874E 08 -51.5464E 08 -51.9064E 08 -52.2674E 08 -52.6294E 08 -52.9924E 08 -53.3564E 08 -53.7214E 08 -54.0874E 08 -54.4504E 08 -54.8144E 08 -55.1794E 08 -55.5454E 08 -55.9124E 08 -56.2804E 08 -56.6494E 08 -57.0194E 08 -57.3904E 08 -57.7624E 08 -58.1354E 08 -58.5094E 08 -58.8844E 08 -59.2604E 08 -59.6374E 08 -60.0154E 08 -60.3944E 08 -60.7744E 08 -61.1554E 08 -61.5374E 08 -61.9204E 08 -62.3044E 08 -62.6894E 08 -63.0754E 08 -63.4624E 08 -63.8504E 08 -64.2394E 08 -64.6294E 08 -65.0204E 08 -65.4124E 08 -65.8054E 08 -66.1994E 08 -66.5944E 08 -66.9904E 08 -67.3874E 08 -67.7854E 08 -68.1844E 08 -68.5844E 08 -68.9854E 08 -69.3874E 08 -69.7904E 08 -70.1944E 08 -70.5994E 08 -71.0044E 08 -71.4104E 08 -71.8174E 08 -72.2254E 08 -72.6344E 08 -73.0444E 08 -73.4554E 08 -73.8674E 08 -74.2804E 08 -74.6944E 08 -75.1094E 08 -75.5294E 08 -75.9504E 08 -76.3714E 08 -76.7934E 08 -77.2164E 08 -77.6404E 08 -78.0644E 08 -78.4894E 08 -78.9144E 08 -79.3404E 08 -79.7664E 08 -80.1934E 08 -80.6214E 08 -81.0504E 08 -81.4794E 08 -81.9094E 08 -82.3394E 08 -82.7704E 08 -83.2014E 08 -83.6334E 08 -84.0664E 08 -84.5004E 08 -84.9344E 08 -85.3694E 08 -85.8044E 08 -86.2404E 08 -86.6764E 08 -87.1134E 08 -87.5514E 08 -87.9904E 08 -88.4304E 08 -88.8704E 08 -89.3114E 08 -89.7524E 08 -90.1944E 08 -90.6374E 08 -91.0804E 08 -91.5244E 08 -91.9684E 08 -92.4134E 08 -92.8584E 08 -93.3044E 08 -93.7504E 08 -94.1964E 08 -94.6434E 08 -95.0904E 08 -95.5384E 08 -95.9864E 08 -96.4354E 08 -96.8844E 08 -97.3344E 08 -97.7844E 08 -98.2344E 08 -98.6844E 08 -99.1344E 08 -99.5844E 08 -100.0344E 08 -100.4844E 08 -100.9344E 08 -101.3844E 08 -101.8344E 08 -102.2844E 08 -102.7344E 08 -103.1844E 08 -103.6344E 08 -104.0844E 08 -104.5344E 08 -104.9844E 08 -105.4344E 08 -105.8844E 08 -106.3344E 08 -106.7844E 08 -107.2344E 08 -107.6844E 08 -108.1344E 08 -108.5844E 08 -109.0344E 08 -109.4844E 08 -109.9344E 08 -110.3844E 08 -110.8344E 08 -111.2844E 08 -111.7344E 08 -112.1844E 08 -112.6344E 08 -113.0844E 08 -113.5344E 08 -113.9844E 08 -114.4344E 08 -114.8844E 08 -115.3344E 08 -115.7844E 08 -116.2344E 08 -116.6844E 08 -117.1344E 08 -117.5844E 08 -118.0344E 08 -118.4844E 08 -118.9344E 08 -119.3844E 08 -119.8344E 08 -120.2844E 08 -120.7344E 08 -121.1844E 08 -121.6344E 08 -122.0844E 08 -122.5344E 08 -122.9844E 08 -123.4344E 08 -123.8844E 08 -124.3344E 08 -124.7844E 08 -125.2344E 08 -125.6844E 08 -126.1344E 08 -126.5844E 08 -127.0344E 08 -127.4844E 08 -127.9344E 08 -128.3844E 08 -128.8344E 08 -129.2844E 08 -129.7344E 08 -130.1844E 08 -130.6344E 08 -131.0844E 08 -131.5344E 08 -131.9844E 08 -132.4344E 08 -132.8844E 08 -133.3344E 08 -133.7844E 08 -134.2344E 08 -134.6844E 08 -135.1344E 08 -135.5844E 08 -136.0344E 08 -136.4844E 08 -136.9344E 08 -137.3844E 08 -137.8344E 08 -138.2844E 08 -138.7344E 08 -139.1844E 08 -139.6344E 08 -140.0844E 08 -140.5344E 08 -140.9844E 08 -141.4344E 08 -141.8844E 08 -142.3344E 08 -142.7844E 08 -143.2344E 08 -143.6844E 08 -144.1344E 08 -144.5844E 08 -145.0344E 08 -145.4844E 08 -145.9344E 08 -146.3844E 08 -146.8344E 08 -147.2844E 08 -147.7344E 08 -148.1844E 08 -148.6344E 08 -149.0844E 08 -149.5344E 08 -150.0344E 08 -150.4844E 08 -150.9344E 08 -151.3844E 08 -151.8344E 08 -152.2844E 08 -152.7344E 08 -153.1844E 08 -153.6344E 08 -154.0844E 08 -154.5344E 08 -154.9844E 08 -155.4344E 08 -155.8844E 08 -156.3344E 08 -156.7844E 08 -157.2344E 08 -157.6844E 08 -158.1344E 08 -158.5844E 08 -159.0344E 08 -159.4844E 08 -160.0344E 08 -160.4844E 08 -160.9344E 08 -161.3844E 08 -161.8344E 08 -162.2844E 08 -162.7344E 08 -163.1844E 08 -163.6344E 08 -164.0844E 08 -164.5344E 08 -164.9844E 08 -165.4344E 08 -165.8844E 08 -166.3344E 08 -166.7844E 08 -167.2344E 08 -167.6844E 08 -168.1344E 08 -168.5844E 08 -169.0344E 08 -169.4844E 08 -170.0344E 08 -170.4844E 08 -170.9344E 08 -171.3844E 08 -171.8344E 08 -172.2844E 08 -172.7344E 08 -173.1844E 08 -173.6344E 08 -174.0844E 08 -174.5344E 08 -174.9844E 08 -175.4344E 08 -175.8844E 08 -176.3344E 08 -176.7844E 08 -177.2344E 08 -177.6844E 08 -178.1344E 08 -178.5844E 08 -179.0344E 08 -179.4844E 08 -180.0344E 08 -180.4844E 08 -180.9344E 08 -181.3844E 08 -181.8344E 08 -182.2844E 08 -182.7344E 08 -183.1844E 08 -183.6344E 08 -184.0844E 08 -184.5344E 08 -184.9844E 08 -185.4344E 08 -185.8844E 08 -186.3344E 08 -186.7844E 08 -187.2344E 08 -187.6844E 08 -188.1344E 08 -188.5844E 08 -189.0344E 08 -189.4844E 08 -190.0344E 08 -190.4844E 08 -190.9344E 08 -191.3844E 08 -191.8344E 08 -192.2844E 08 -192.7344E 08 -193.1844E 08 -193.6344E 08 -194.0844E 08 -194.5344E 08 -194.9844E 08 -195.4344E 08 -195.8844E 08 -196.3344E 08 -196.7844E 08 -197.2344E 08 -197.6844E 08 -198.1344E 08 -198.5844E 08 -199.0344E 08 -199.4844E 08 -200.0344E 08 -200.4844E 08 -200.9344E 08 -201.3844E 08 -201.8344E 08 -202.2844E 08 -202.7344E 08 -203.1844E 08 -203.6344E 08 -204.0844E 08 -204.5344E 08 -204.9844E 08 -205.4344E 08 -205.8844E 08 -206.3344E 08 -206.7844E 08 -207.2344E 08 -207.6844E 08 -208.1344E 08 -208.5844E 08 -209.0344E 08 -209.4844E 08 -210.0344E 08 -210.4844E 08 -210.9344E 08 -211.3844E 08 -211.8344E 08 -212.2844E 08 -212.7344E 08 -213.1844E 08 -213.6344E 08 -214.0844E 08 -214.5344E 08 -214.9844E 08 -215.4344E 08 -215.8844E 08 -216.3344E 08 -216.7844E 08 -217.2344E 08 -217.6844E 08 -218.1344E 08 -218.5844E 08 -219.0344E 08 -219.4844E 08 -220.0344E 08 -220.4844E 08 -220.9344E 08 -221.3844E 08 -221.8344E 08 -222.2844E 08 -222.7344E 08 -223.1844E 08 -223.6344E 08 -224.0844E 08 -224.5344E 08 -224.9844E 08 -225.4344E 08 -225.8844E 08 -226.3344E 08 -226.7844E 08 -227.2344E 08 -227.6844E 08 -228.1344E 08 -228.5844E 08 -229.0344E 08 -229.4844E 08 -230.0344E 08 -230.4844E 08 -230.9344E 08 -231.3844E 08 -231.8344E 08 -232.2844E 08 -232.7344E 08 -233.1844E 08 -233.6344E 08 -234.0844E 08 -234.5344E 08 -234.9844E 08 -235.4344E 08 -235.8844E 08 -236.3344E 08 -236.7844E 08 -237.2344E 08 -237.6844E 08 -238.1344E 08 -238.5844E 08 -239.0344E 08 -239.4844E 08 -240.0344E 08 -240.4844E 08 -240.9344E 08 -241.3844E 08 -241.8344E 08 -242.2844E 08 -242.7344E 08 -243.1844E 08 -243.6344E 08 -244.0844E 08 -244.5344E 08 -244.9844E 08 -245.4344E 08 -245.8844E 08 -246.3344E 08 -246.7844E 08 -247.2344E 08 -247.6844E 08 -248.1344E 08 -248.5844E 08 -249.0344E 08 -249.4844E 08 -250.0344E 08 -250.4844E 08 -250.9344E 08 -251.3844E 08 -251.8344E 08 -252.2844E 08 -252.7344E 08 -253.1844E 08 -253.6344E 08 -254.0844E 08 -254.5344E 08 -254.9844E 08 -255.4344E 08 -255.8844E 08 -256.3344E 08 -256.7844E 08 -257.2344E 08 -257.6844E 08 -258.1344E 08 -258.5844E 08 -259.0344E 08 -259.4844E 08 -260.0344E 08 -260.4844E 08 -260.9344E 08 -261.3844E 08 -261.8344E 08 -262.2844E 08 -262.7344E 08 -263.1844E 08 -263.6344E 08 -264.0844E 08 -264.5344E 08 -264.9844E 08 -265.4344E 08 -265.8844E 08 -266.3344E 08 -266.7844E 08 -267.2344E 08 -267.6844E 08 -268.1344E 08 -268.5844E 08 -269.0344E 08 -269.4844E 08 -270.0344E 08 -270.4844E 08 -270.9344E 08 -271.3844E 08 -271.8344E 08 -272.2844E 08 -272.7344E 08 -273.1844E 08 -273.6344E 08 -274.0844E 08 -274.5344E 08 -274.9844E 08 -275.4344E 08 -275.8844E 08 -276

FOURIER EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 30

[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 39

	62.5N	77.5	77.5	87.5	87.5	92.5	97.5	102.5	112.5	122.5	127.5	132.5N	137.5N
57.5N													
52.5N													
47.5N													
42.5N													
37.5N													
32.5													
27.5N													
22.5N													
17.5N													
12.5N													
07.5N													
02.5N													

0.1250E OF 0.4027E OF 0.8420E OF 0.7201E OF 0.4435E OF 0.3860E OF

0.1578E OF -0.3806E OF -0.4493E OF -0.7473E OF -0.7679E OF -0.6538E OF -0.5345E OF

-0.6580E OF -0.1144E OF -0.1550E OF -0.1406E OF -0.2157E OF -0.2174E OF -0.1419E OF -0.1419E OF -0.1419E OF -0.1419E OF -0.1419E OF -0.1419E OF -0.1419E OF -0.1419E OF

-0.6567E OF -0.8034E OF -0.1246E OF -0.2094E OF -0.2853E OF -0.3530E OF -0.4500E OF -0.4635E OF -0.4635E OF -0.4635E OF -0.4635E OF -0.4635E OF -0.4635E OF -0.4635E OF

-0.1528E OF -0.2543E OF -0.2799E OF -0.3584E OF -0.4294E OF -0.4615E OF -0.4615E OF -0.4615E OF -0.4615E OF -0.4615E OF -0.4615E OF -0.4615E OF -0.4615E OF

-0.1898E OF -0.3275E OF -0.4266E OF -0.4266E OF -0.4266E OF -0.4266E OF -0.4266E OF -0.4266E OF -0.4266E OF -0.4266E OF -0.4266E OF -0.4266E OF -0.4266E OF

-0.1708E OF -0.3212E OF -0.4368E OF -0.5078E OF -0.5339E OF -0.5339E OF -0.5339E OF -0.5339E OF -0.5339E OF -0.5339E OF -0.5339E OF -0.5339E OF -0.5339E OF

-0.1985E OF -0.4312E OF -0.5324E OF -0.5324E OF -0.5324E OF -0.5324E OF -0.5324E OF -0.5324E OF -0.5324E OF -0.5324E OF -0.5324E OF -0.5324E OF -0.5324E OF

-0.1547E OF -0.2371E OF -0.2915E OF -0.3557E OF -0.4075E OF -0.4519E OF -0.4819E OF -0.4819E OF -0.4819E OF -0.4819E OF -0.4819E OF -0.4819E OF -0.4819E OF

-0.6601E OF -0.7497E OF -0.8371E OF -0.1076E OF -0.1476E OF -0.1876E OF -0.2276E OF -0.2676E OF -0.3076E OF -0.3476E OF -0.3876E OF -0.4276E OF -0.4676E OF

-0.1071E OF 0.6350E OF 0.5534E OF 0.6373E OF 0.6373E OF 0.6373E OF 0.6373E OF 0.6373E OF 0.6373E OF 0.6373E OF 0.6373E OF 0.6373E OF 0.6373E OF

0.7365E OF 0.1159E OF 0.9312E OF 0.7916E OF 0.6044E OF 0.3557E OF 0.1322E OF -0.0245E OF -0.3406E OF -0.6709E OF -0.1055E OF

FAIRLIER EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 40

	82.5M	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5M	07.5E
57.5M											0.0629E OF 0.0530E OF 0.7790E OF 0.6601E OF 0.4208E OF 0.3708E OF							
52.5M											0.1402E OF -0.1403E OF -0.4657E OF -0.7207E OF -0.7488E OF -0.6344E OF -0.5270E OF							
47.5M											-0.4287E OF -0.1077E OF -0.1300E OF -0.1888E OF -0.2053E OF -0.2111E OF -0.1402E OF -0.1374E OF -0.7482E OF -0.1452E OF -0.5100E OF							
42.5M											-0.6200E OF -0.8592E OF -0.1188E OF -0.2758E OF -0.5208E OF -0.5575E OF -0.5500E OF -0.5164E OF -0.2709E OF -0.1911E OF -0.0886E OF							
37.5M											-0.1536E OF -0.2277E OF -0.3219E OF -0.5694E OF -0.8127E OF -0.8442E OF -0.4433E OF -0.4133E OF -0.5670E OF -0.2412E OF -0.1902E OF -0.6598E OF							
32.5M											-0.1777E OF -0.3086E OF -0.4046E OF -0.4995E OF -0.5207E OF -0.5224E OF -0.5021E OF -0.4673E OF -0.4159E OF -0.3438E OF -0.2534E OF -0.1459E OF -0.3454E OF							
27.5M											-0.1588E OF -0.3010E OF -0.4124E OF -0.4825E OF -0.5076E OF -0.5555E OF -0.4980E OF -0.4401E OF -0.3865E OF -0.3012E OF -0.1939E OF -0.7044E OF							
22.5M											-0.1684E OF -0.3010E OF -0.4359E OF -0.4855E OF -0.4974E OF -0.4592E OF -0.4087E OF -0.3533E OF -0.2490E OF -0.2031E OF -0.1032E OF -0.4444E OF							
17.5M											-0.1440E OF -0.2754E OF -0.4078E OF -0.5414E OF -0.6134E OF -0.5292E OF -0.3134E OF -0.2592E OF -0.1901E OF -0.1428E OF -0.0799E OF -0.5622E OF 0.4618E OF							
12.5M											-0.6152E OF -0.1027E OF -0.1816E OF -0.1022E OF -0.1510E OF -0.1653E OF -0.1567E OF -0.1294E OF -0.8256E OF -0.3330E OF 0.1631E OF 0.4162E OF 0.6692E OF 0.5486E OF							
07.5M											-0.1987E OF -0.2812E OF 0.2711E OF 0.5618E OF 0.7477E OF 0.8724E OF 0.7442E OF 0.6403E OF 0.2532E OF -0.4604E OF							
02.5M											0.6782E OF 0.9081E OF 0.8710E OF 0.7444E OF 0.5737E OF 0.3108E OF 0.9405E OF 0.9405E OF -0.9354E OF -0.7047E OF -0.5424E OF -0.4449E OF -0.1808E OF							

07.54

0.6090E 07 0.7594E 07 0.7095E 07 0.6151E 07 0.5790E 07 0.5396E 06

0.128E 07 -0.2463E 06 -0.4650E 07 -0.6915E 07 -0.7110E 07 -0.6028E 07 -0.5138E 07

-0.5155e 07 -0.1009e 08 -0.1389e 08 -0.1709e 08 -0.1944e 08 -0.1975e 08 -0.1752e 08 -0.1505e 08 -0.7158e 07 -0.1470e 07 -0.3330e 06

10 39555.0 -10 35457.0 -10 10815.0 -10 31527.0 -10 34942.0 -10 74515.0 -10 70515.0 -10 31947.0 -10 31555.0 -10 31191.0 -10 34168.0

-0.127ae 0e -0.1v91k 0e -0.2v96k 0e -0.5597e 0e -0.5815e 0e -0.6123e 0e -0.4188e 0e -0.5877e 0e -0.2736e 0e -0.1d16e 0e -0.6465k 0e

$-0.159E$ OB $-0.2750E$ CB $-0.5646E$ OB $-0.4194E$ OB $-0.4577E$ OB $-0.4803E$ OB $-0.4849E$ OB $-0.4889E$ OB $-0.4989E$ OB $-0.5266E$ OB $-0.2424E$ OB $-0.1392E$ OB $-0.5303E$ OF

$$-0.1885E\ 08\ -0.2665E\ 08\ -0.3688E\ 08\ -0.4565E\ 08\ -0.5227E\ 08\ -0.5755E\ 08\ -0.6242E\ 08\ -0.6675E\ 08\ -0.7072E\ 08\ -0.7439E\ 07$$

$-0.1650E\ 08\ -0.2647E\ 08\ -0.3378E\ 08\ -0.3958E\ 08\ -0.4497E\ 08\ -0.4560E\ 08\ -0.4515E\ 08\ -0.3666E\ 08\ -0.3368E\ 08\ -0.2732E\ 08\ -0.1942E\ 08\ -0.1035E\ 08\ -0.0585E\ 06$

-0.12536 08 -0.19172 08 -0.28766 08 -0.27946 08 -0.32006 08 -0.32811 08 -0.32364 08 -0.29816 08 -0.29004 08 -0.19476 08 -0.16226 08 -0.11516 08 -0.06906 06 0.39504 01

-0.5516	07	-0.6167	07	-0.7666	07	-0.9299	07	-0.1220	08	-0.1360	08	-0.1516	08	-0.1287	08	-0.8056	07	-0.4027	07	0.6035	06	0.3656	07	0.5763	07	0.4403	07
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Parameter	Estimate	Standard Error	t-Statistic	p-Value
Intercept	-0.2123E 00	0.1699E 00	-0.6147E 01	0.5350E 01
Age	-0.0001E 00	0.0001E 00	-0.1000E 00	0.9200E 00
Gender	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Married	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Education	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Income	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Health	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Smoking	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Alcohol	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Exercise	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Stress	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Family Size	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Religion	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Political	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Occupation	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Unemployment	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Home Ownership	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Neighborhood	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Crime Rate	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Public Services	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Quality of Life	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Life Satisfaction	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Healthcare Access	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Environmental Quality	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Transportation	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Community Engagement	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Government	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Economy	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Culture	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local History	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Identity	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Values	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Norms	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Beliefs	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Attitudes	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Behaviors	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Interactions	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Networks	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Institutions	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Organizations	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Groups	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Movements	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Activism	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Leadership	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Governance	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Policy	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Legislation	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Regulation	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Enforcement	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Compliance	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00
Local Accountability	0.0000E 00	0.0000E 00	0.0000E 00	1.0000E 00

0.5188E 07 0.8441E 07 0.7655E 07 0.6603E 07 0.5147E 07 0.5121E 07 0.4953E 06 -0.4855E 06 -0.7131E 06 -0.2451E 06 -0.4025E 06 -0.9122E 06

	07.5	12.5	22.5	07.5	02.5M	07.5E
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0.94746 07 -0.96016 07 -0.15316 08 -0.10941 08 -0.19102 08 -0.16006 08
07.5.20

[illegible]

NC 75 2446290.00 2446290.00 2446290.00

-0.15042E 08 -0.25132E 08 -0.42701E 08 -0.57956E 08 -0.62070E 08 -0.63828E 08 -0.64382E 08 -0.54262E 08 -0.41786E 08 -0.54622E 08 -0.52058E 08 -0.27768E 08 -0.19518E 08 -0.10528E 08

07.5h
-0.213m 01 -0.167d 01 0.167d 01 0.200m 01

Year	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

0.5400 07 0.6612 07 0.6571 07 0.5543 07 0.3032 07 0.3107 06

0.10241 OF -0.0026E 06 -0.0012E 07 -0.0546E 07 -0.0700E 07 -0.5721E 07 -0.2999E 07

Parameter	Estimate	Standard Error	z-Statistic	p-Value
α_1	-0.5239	0.1271	-4.12	0.0000
α_2	-0.9271	0.1271	-7.33	0.0000
α_3	-0.1591	0.1271	-1.25	0.2141
α_4	-0.1014	0.1271	-0.79	0.4298
α_5	-0.1235	0.1271	-0.97	0.3311
α_6	-0.1646	0.1271	-1.29	0.1974
α_7	-0.1235	0.1271	-0.97	0.3311
α_8	-0.1014	0.1271	-0.79	0.4298
α_9	-0.1591	0.1271	-1.25	0.2141
α_{10}	-0.9271	0.1271	-7.33	0.0000
α_{11}	-0.5239	0.1271	-4.12	0.0000
α_{12}	-0.1235	0.1271	-0.97	0.3311
α_{13}	-0.1014	0.1271	-0.79	0.4298
α_{14}	-0.1591	0.1271	-1.25	0.2141
α_{15}	-0.1235	0.1271	-0.97	0.3311
α_{16}	-0.1014	0.1271	-0.79	0.4298
α_{17}	-0.1591	0.1271	-1.25	0.2141
α_{18}	-0.9271	0.1271	-7.33	0.0000
α_{19}	-0.5239	0.1271	-4.12	0.0000
α_{20}	-0.1235	0.1271	-0.97	0.3311
α_{21}	-0.1014	0.1271	-0.79	0.4298
α_{22}	-0.1591	0.1271	-1.25	0.2141
α_{23}	-0.1235	0.1271	-0.97	0.3311
α_{24}	-0.1014	0.1271	-0.79	0.4298
α_{25}	-0.1591	0.1271	-1.25	0.2141
α_{26}	-0.9271	0.1271	-7.33	0.0000
α_{27}	-0.5239	0.1271	-4.12	0.0000
α_{28}	-0.1235	0.1271	-0.97	0.3311
α_{29}	-0.1014	0.1271	-0.79	0.4298
α_{30}	-0.1591	0.1271	-1.25	0.2141
α_{31}	-0.1235	0.1271	-0.97	0.3311
α_{32}	-0.1014	0.1271	-0.79	0.4298
α_{33}	-0.1591	0.1271	-1.25	0.2141
α_{34}	-0.9271	0.1271	-7.33	0.0000
α_{35}	-0.5239	0.1271	-4.12	0.0000
α_{36}	-0.1235	0.1271	-0.97	0.3311
α_{37}	-0.1014	0.1271	-0.79	0.4298
α_{38}	-0.1591	0.1271	-1.25	0.2141
α_{39}	-0.1235	0.1271	-0.97	0.3311
α_{40}	-0.1014	0.1271	-0.79	0.4298
α_{41}	-0.1591	0.1271	-1.25	0.2141
α_{42}	-0.9271	0.1271	-7.33	0.0000
α_{43}	-0.5239	0.1271	-4.12	0.0000
α_{44}	-0.1235	0.1271	-0.97	0.3311
α_{45}	-0.1014	0.1271	-0.79	0.4298
α_{46}	-0.1591	0.1271	-1.25	0.2141
α_{47}	-0.1235	0.1271	-0.97	0.3311
α_{48}	-0.1014	0.1271	-0.79	0.4298
α_{49}	-0.1591	0.1271	-1.25	0.2141
α_{50}	-0.9271	0.1271	-7.33	0.0000
α_{51}	-0.5239	0.1271	-4.12	0.0000
α_{52}	-0.1235	0.1271	-0.97	0.3311
α_{53}	-0.1014	0.1271	-0.79	0.4298
α_{54}	-0.1591	0.1271	-1.25	0.2141
α_{55}	-0.1235	0.1271	-0.97	0.3311
α_{56}	-0.1014	0.1271	-0.79	0.4298
α_{57}	-0.1591	0.1271	-1.25	0.2141
α_{58}	-0.9271	0.1271	-7.33	0.0000
α_{59}	-0.5239	0.1271	-4.12	0.0000
α_{60}	-0.1235	0.1271	-0.97	0.3311
α_{61}	-0.1			

-0.36958 $07 - 0.64446$ $17 - 0.44444$ $07 - 0.16161$ $08 - 0.25156$ $08 - 0.24221$ $08 - 0.27444$ $08 - 0.26024$ $08 - 0.17146$ $08 - 0.19444$

$$\begin{aligned} & -0.1154\sigma_H - 0.1792\sigma_W - 0.2267\sigma_{\Gamma} - 0.2485\sigma_W - 0.5126\sigma_W - 0.5524\sigma_W - 0.5483\sigma_W - 0.4650\sigma_W - 0.5205\sigma_W - 0.2610\sigma_W - 0.1710\sigma_W - 0.6795\sigma_T \\ & - 0.1154\sigma_H - 0.1792\sigma_W - 0.2267\sigma_{\Gamma} - 0.2485\sigma_W - 0.5126\sigma_W - 0.5524\sigma_W - 0.5483\sigma_W - 0.4650\sigma_W - 0.5205\sigma_W - 0.2610\sigma_W - 0.1710\sigma_W - 0.6795\sigma_T \end{aligned}$$
[illegible][illegible]

θ	Γ	Γ^2	Γ^3	Γ^4	Γ^5	Γ^6	Γ^7	Γ^8	Γ^9	Γ^{10}	Γ^{11}	Γ^{12}	Γ^{13}	Γ^{14}	Γ^{15}	Γ^{16}	Γ^{17}	Γ^{18}	Γ^{19}	Γ^{20}	Γ^{21}	Γ^{22}	Γ^{23}	Γ^{24}	Γ^{25}	Γ^{26}	Γ^{27}	Γ^{28}	Γ^{29}	Γ^{30}	Γ^{31}	Γ^{32}	Γ^{33}	Γ^{34}	Γ^{35}	Γ^{36}	Γ^{37}	Γ^{38}	Γ^{39}	Γ^{40}	Γ^{41}	Γ^{42}	Γ^{43}	Γ^{44}	Γ^{45}	Γ^{46}	Γ^{47}	Γ^{48}	Γ^{49}	Γ^{50}	Γ^{51}	Γ^{52}	Γ^{53}	Γ^{54}	Γ^{55}	Γ^{56}	Γ^{57}	Γ^{58}	Γ^{59}	Γ^{60}	Γ^{61}	Γ^{62}	Γ^{63}	Γ^{64}	Γ^{65}	Γ^{66}	Γ^{67}	Γ^{68}	Γ^{69}	Γ^{70}	Γ^{71}	Γ^{72}	Γ^{73}	Γ^{74}	Γ^{75}	Γ^{76}	Γ^{77}	Γ^{78}	Γ^{79}	Γ^{80}	Γ^{81}	Γ^{82}	Γ^{83}	Γ^{84}	Γ^{85}	Γ^{86}	Γ^{87}	Γ^{88}	Γ^{89}	Γ^{90}	Γ^{91}	Γ^{92}	Γ^{93}	Γ^{94}	Γ^{95}	Γ^{96}	Γ^{97}	Γ^{98}	Γ^{99}	Γ^{100}																																														
0.25	0.25	0.0625	0.015625	0.00390625	0.0009765625	0.000244140625	6.103515625e-05	1.525878906e-05	3.814697266e-06	9.536743164e-07	2.384178791e-07	5.960302734e-08	1.49010011e-08	3.725219727e-09	9.313020819e-10	2.328125194e-10	5.8203125e-11	1.455078125e-11	3.640625e-12	9.1015625e-13	2.275390625e-13	5.688476562e-14	1.421875e-14	3.5546875e-15	8.896484375e-16	2.224121094e-16	5.560302734e-17	1.395996094e-17	3.4890625e-18	8.72265625e-19	2.180175781e-19	5.450683594e-20	1.36453125e-20	3.412109375e-21	8.525390625e-22	2.134277344e-22	5.33984375e-23	1.337109375e-23	3.34375e-24	8.359375e-25	2.088427734e-25	5.219726562e-26	1.30859375e-26	3.275e-27	8.1921875e-28	2.048125e-28	5.119140625e-29	1.278320312e-29	3.20625e-30	8.015625e-31	2.0078125e-31	5.01953125e-32	1.247265625e-32	3.135e-33	7.8359375e-34	1.96796875e-34	4.919140625e-35	1.2159375e-35	3.0625e-36	7.65234375e-37	1.91796875e-37	4.819140625e-38	1.184375e-38	2.9875e-39	7.46875e-40	1.86796875e-40	4.71875e-41	1.1525e-41	2.9125e-42	7.28125e-43	1.81796875e-43	4.61875e-44	1.120625e-44	2.8375e-45	7.09375e-46	1.76796875e-46	4.51875e-47	1.08875e-47	2.7625e-48	6.90625e-49	1.71796875e-49	4.41875e-50	1.056875e-50	2.6875e-51	6.71875e-52	1.66796875e-52	4.31875e-53	1.025e-53	2.6125e-54	6.53125e-55	1.61796875e-55	4.21875e-56	1.0e-56	2.5375e-57	6.34375e-58	1.56796875e-58	4.11875e-59	9.6875e-60	2.4625e-60	6.15625e-61	1.51796875e-61	3.91875e-62	9.39375e-63	2.3375e-63	5.96875e-64	1.46796875e-64	3.71875e-65	8.99375e-66	2.2125e-66	5.76875e-67	1.41796875e-67	3.51875e-68	8.79375e-69	2.0875e-69	5.56875e-70	1.36796875e-70	3.31875e-71	8.59375e-72	2.0125e-72	5.36875e-73	1.31796875e-73	3.11875e-74	8.39375e-75	1.9375e-75	5.16875e-76	1.26796875e-76	2.91875e-77	8.19375e-78	1.8625e-78	4.96875e-79	1.21796875e-79	2.71875e-80	7.99375e-81	1.7625e-81	4.76875e-82	1.16796875e-82	2.51875e-83	7.79375e-84	1.6625e-84	4.56875e-85	1.11796875e-85	2.31875e-86	7.59375e-87	1.5625e-87	4.36875e-88	1.06796875e-88

0.9460E 06 -0.4412E 10 -0.4302E 07 -0.0366E 07 -0.0563E 07 -0.5571E 07 -0.2924E 07
-0.5020E 07 -0.8920E 07 -0.126CE 08 -0.1155E 38 -0.0.1153E 08 -0.1766E 08 -0.1594E 08 -0.1194E 08 -0.6672E 07 -0.1463E 07 -0.5659E 56

11.5W
-0.1071E 0d -0.1702E 0d -0.2716E 0d -0.2574E 0d -0.3102E 0d -0.3794E 0d -0.4667E 0d -0.5711E 0d -0.7538E 0d -0.1111E 0d -0.1552E 0d -0.2154E 0d -0.2944E 0d -0.3944E 0d -0.5195E 0d -0.6667E 0d -0.8333E 0d -1.0333E 0d -1.2667E 0d -1.5333E 0d -1.8333E 0d -2.1667E 0d -2.5333E 0d -2.9333E 0d -3.3667E 0d -3.8333E 0d -4.3333E 0d -4.8667E 0d -5.4333E 0d -6.0333E 0d -6.6667E 0d -7.3333E 0d -8.0333E 0d -8.7333E 0d -9.4667E 0d -10.2333E 0d -11.0333E 0d -11.8333E 0d -12.6667E 0d -13.5333E 0d -14.3333E 0d -15.1667E 0d -16.0333E 0d -16.8333E 0d -17.6667E 0d -18.5333E 0d -19.3333E 0d -20.1667E 0d -21.0333E 0d -21.8333E 0d -22.6667E 0d -23.5333E 0d -24.3333E 0d -25.1667E 0d -25.8333E 0d -26.6667E 0d -27.3333E 0d -28.0333E 0d -28.8333E 0d -29.6667E 0d -30.3333E 0d -31.1667E 0d -31.8333E 0d -32.6667E 0d -33.5333E 0d -34.3333E 0d -35.1667E 0d -35.8333E 0d -36.6667E 0d -37.3333E 0d -38.0333E 0d -38.8333E 0d -39.6667E 0d -40.3333E 0d -41.1667E 0d -41.8333E 0d -42.6667E 0d -43.5333E 0d -44.3333E 0d -45.1667E 0d -45.8333E 0d -46.6667E 0d -47.3333E 0d -48.0333E 0d -48.8333E 0d -49.6667E 0d -50.3333E 0d -51.1667E 0d -51.8333E 0d -52.6667E 0d -53.5333E 0d -54.3333E 0d -55.1667E 0d -55.8333E 0d -56.6667E 0d -57.3333E 0d -58.0333E 0d -58.8333E 0d -59.6667E 0d -60.3333E 0d -61.1667E 0d -61.8333E 0d -62.6667E 0d -63.5333E 0d -64.3333E 0d -65.1667E 0d -65.8333E 0d -66.6667E 0d -67.3333E 0d -68.0333E 0d -68.8333E 0d -69.6667E 0d -70.3333E 0d -71.1667E 0d -71.8333E 0d -72.6667E 0d -73.5333E 0d -74.3333E 0d -75.1667E 0d -75.8333E 0d -76.6667E 0d -77.3333E 0d -78.0333E 0d -78.8333E 0d -79.6667E 0d -80.3333E 0d -81.1667E 0d -81.8333E 0d -82.6667E 0d -83.5333E 0d -84.3333E 0d -85.1667E 0d -85.8333E 0d -86.6667E 0d -87.3333E 0d -88.0333E 0d -88.8333E 0d -89.6667E 0d -90.3333E 0d -91.1667E 0d -91.8333E 0d -92.6667E 0d -93.5333E 0d -94.3333E 0d -95.1667E 0d -95.8333E 0d -96.6667E 0d -97.3333E 0d -98.0333E 0d -98.8333E 0d -99.6667E 0d -100.3333E 0d -101.1667E 0d -101.8333E 0d -102.6667E 0d -103.5333E 0d -104.3333E 0d -105.1667E 0d -105.8333E 0d -106.6667E 0d -107.3333E 0d -108.0333E 0d -108.8333E 0d -109.6667E 0d -110.3333E 0d -111.1667E 0d -111.8333E 0d -112.6667E 0d -113.5333E 0d -114.3333E 0d -115.1667E 0d -115.8333E 0d -116.6667E 0d -117.3333E 0d -118.0333E 0d -118.8333E 0d -119.6667E 0d -120.3333E 0d -121.1667E 0d -121.8333E 0d -122.6667E 0d -123.5333E 0d -124.3333E 0d -125.1667E 0d -125.8333E 0d -126.6667E 0d -127.3333E 0d -128.0333E 0d -128.8333E 0d -129.6667E 0d -130.3333E 0d -131.1667E 0d -131.8333E 0d -132.6667E 0d -133.5333E 0d -134.3333E 0d -135.1667E 0d -135.8333E 0d -136.6667E 0d -137.3333E 0d -138.0333E 0d -138.8333E 0d -139.6667E 0d -140.3333E 0d -141.1667E 0d -141.8333E 0d -142.6667E 0d -143.5333E 0d -144.3333E 0d -145.1667E 0d -145.8333E 0d -146.6667E 0d -147.3333E 0d -148.0333E 0d -148.8333E 0d -149.6667E 0d -150.3333E 0d -151.1667E 0d -151.8333E 0d -152.6667E 0d -153.5333E 0d -154.3333E 0d -155.1667E 0d -155.8333E 0d -156.6667E 0d -157.3333E 0d -158.0333E 0d -158.8333E 0d -159.6667E 0d -160.3333E 0d -161.1667E 0d -161.8333E 0d -162.6667E 0d -163.5333E 0d -164.3333E 0d -165.1667E 0d -165.8333E 0d -166.6667E 0d -167.3333E 0d -168.0333E 0d -168.8333E 0d -169.6667E 0d -170.3333E 0d -171.1667E 0d -171.8333E 0d -172.6667E 0d -173.5333E 0d -174.3333E 0d -175.1667E 0d -175.8333E 0d -176.6667E 0d -177.3333E 0d -178.0333E 0d -178.8333E 0d -179.6667E 0d -180.3333E 0d -181.1667E 0d -181.8333E 0d -182.6667E 0d -183.5333E 0d -184.3333E 0d -185.1667E 0d -185.8333E 0d -186.6667E 0d -187.3333E 0d -188.0333E 0d -188.8333E 0d -189.6667E 0d -190.3333E 0d -191.1667E 0d -191.8333E 0d -192.6667E 0d -193.5333E 0d -194.3333E 0d -195.1667E 0d -195.8333E 0d -196.6667E 0d -197.3333E 0d -198.0333E 0d -198.8333E 0d -199.6667E 0d -200.3333E 0d -201.1667E 0d -201.8333E 0d -202.6667E 0d -203.5333E 0d -204.3333E 0d -205.1667E 0d -205.8333E 0d -206.6667E 0d -207.3333E 0d -208.0333E 0d -208.8333E 0d -209.6667E 0d -210.3333E 0d -211.1667E 0d -211.8333E 0d -212.6667E 0d -213.5333E 0d -214.3333E 0d -215.1667E 0d -215.8333E 0d -216.6667E 0d -217.3333E 0d -218.0333E 0d -218.8333E 0d -219.6667E 0d -220.3333E 0d -221.1667E 0d -221.8333E 0d -222.6667E 0d -223.5333E 0d -224.3333E 0d -225.1667E 0d -225.8333E 0d -226.6667E 0d -227.3333E 0d -228.0333E 0d -228.8333E 0d -229.6667E 0d -230.3333E 0d -231.1667E 0d -231.8333E 0d -232.6667E 0d -233.5333E 0d -234.3333E 0d -235.1667E 0d -235.8333E 0d -236.6667

```
27.5N -0.2251E DB -0.5161E DB -0.6190E DB -0.8457E DB -0.8501E DB -0.8457E DB -0.5161E DB -0.2251E DB -0.4433E DB
```

0.100E 08 -0.1656E 08 -0.211NE 08 -0.2627E 08 -0.2613E 08 -0.2933E 08 -0.2947E 08 -0.2749E 08 -0.2449E 08
17.5N

[illegible]

[illegible][illegible]

0.072E 06 -0.0721E 06 -0.0122E 07 -0.0193E 07 -0.0388E 07 -0.5825E 07 -0.2861E 17

[illegible]

0.4447E 01 -0.6192E 01 -0.4473E 01 -0.1534E 01 -0.2139E 01 -0.2754E 01 -0.2722E 01 -0.2775E 01 -0.2611E 01 -0.2261E 01 -0.1673E 01

```

-0.1016e 01 -0.1612e 01 -0.2208e 01 -0.2460e 01 -0.2688e 01 -0.2880e 01 -0.3267e 01 -0.3495e 01 -0.3865e 01 -0.4015e 01
-0.4165e 01 -0.4315e 01 -0.4465e 01 -0.4615e 01 -0.4765e 01 -0.4915e 01 -0.5065e 01 -0.5215e 01 -0.5365e 01 -0.5515e 01
-0.5665e 01 -0.5815e 01 -0.5965e 01 -0.6115e 01 -0.6265e 01 -0.6415e 01 -0.6565e 01 -0.6715e 01 -0.6865e 01 -0.7015e 01
-0.7165e 01 -0.7315e 01 -0.7465e 01 -0.7615e 01 -0.7765e 01 -0.7915e 01 -0.8065e 01 -0.8215e 01 -0.8365e 01 -0.8515e 01
-0.8665e 01 -0.8815e 01 -0.8965e 01 -0.9115e 01 -0.9265e 01 -0.9415e 01 -0.9565e 01 -0.9715e 01 -0.9865e 01 -1.0015e 01
-1.0165e 01 -1.0315e 01 -1.0465e 01 -1.0615e 01 -1.0765e 01 -1.0915e 01 -1.1065e 01 -1.1215e 01 -1.1365e 01 -1.1515e 01
-1.1665e 01 -1.1815e 01 -1.1965e 01 -1.2115e 01 -1.2265e 01 -1.2415e 01 -1.2565e 01 -1.2715e 01 -1.2865e 01 -1.3015e 01
-1.3165e 01 -1.3315e 01 -1.3465e 01 -1.3615e 01 -1.3765e 01 -1.3915e 01 -1.4065e 01 -1.4215e 01 -1.4365e 01 -1.4515e 01
-1.4665e 01 -1.4815e 01 -1.4965e 01 -1.5115e 01 -1.5265e 01 -1.5415e 01 -1.5565e 01 -1.5715e 01 -1.5865e 01 -1.6015e 01
-1.6165e 01 -1.6315e 01 -1.6465e 01 -1.6615e 01 -1.6765e 01 -1.6915e 01 -1.7065e 01 -1.7215e 01 -1.7365e 01 -1.7515e 01
-1.7665e 01 -1.7815e 01 -1.7965e 01 -1.8115e 01 -1.8265e 01 -1.8415e 01 -1.8565e 01 -1.8715e 01 -1.8865e 01 -1.9015e 01
-1.9165e 01 -1.9315e 01 -1.9465e 01 -1.9615e 01 -1.9765e 01 -1.9915e 01 -2.0065e 01 -2.0215e 01 -2.0365e 01 -2.0515e 01
-2.0665e 01 -2.0815e 01 -2.0965e 01 -2.1115e 01 -2.1265e 01 -2.1415e 01 -2.1565e 01 -2.1715e 01 -2.1865e 01 -2.2015e 01
-2.2165e 01 -2.2315e 01 -2.2465e 01 -2.2615e 01 -2.2765e 01 -2.2915e 01 -2.3065e 01 -2.3215e 01 -2.3365e 01 -2.3515e 01
-2.3665e 01 -2.3815e 01 -2.3965e 01 -2.4115e 01 -2.4265e 01 -2.4415e 01 -2.4565e 01 -2.4715e 01 -2.4865e 01 -2.5015e 01
-2.5165e 01 -2.5315e 01 -2.5465e 01 -2.5615e 01 -2.5765e 01 -2.5915e 01 -2.6065e 01 -2.6215e 01 -2.6365e 01 -2.6515e 01
-2.6665e 01 -2.6815e 01 -2.6965e 01 -2.7115e 01 -2.7265e 01 -2.7415e 01 -2.7565e 01 -2.7715e 01 -2.7865e 01 -2.8015e 01
-2.8165e 01 -2.8315e 01 -2.8465e 01 -2.8615e 01 -2.8765e 01 -2.8915e 01 -2.9065e 01 -2.9215e 01 -2.9365e 01 -2.9515e 01
-2.9665e 01 -2.9815e 01 -2.9965e 01 -3.0115e 01 -3.0265e 01 -3.0415e 01 -3.0565e 01 -3.0715e 01 -3.0865e 01 -3.1015e 01
-3.1165e 01 -3.1315e 01 -3.1465e 01 -3.1615e 01 -3.1765e 01 -3.1915e 01 -3.2065e 01 -3.2215e 01 -3.2365e 01 -3.2515e 01
-3.2665e 01 -3.2815e 01 -3.2965e 01 -3.3115e 01 -3.3265e 01 -3.3415e 01 -3.3565e 01 -3.3715e 01 -3.3865e 01 -3.4015e 01
-3.4165e 01 -3.4315e 01 -3.4465e 01 -3.4615e 01 -3.4765e 01 -3.4915e 01 -3.5065e 01 -3.5215e 01 -3.5365e 01 -3.5515e 01
-3.5665e 01 -3.5815e 01 -3.5965e 01 -3.6115e 01 -3.6265e 01 -3.6415e 01 -3.6565e 01 -3.6715e 01 -3.6865e 01 -3.7015e 01
-3.7165e 01 -3.7315e 01 -3.7465e 01 -3.7615e 01 -3.7765e 01 -3.7915e 01 -3.8065e 01 -3.8215e 01 -3.8365e 01 -3.8515e 01
-3.8665e 01 -3.8815e 01 -3.8965e 01 -3.9115e 01 -3.9265e 01 -3.9415e 01 -3.9565e 01 -3.9715e 01 -3.9865e 01 -4.0015e 01
-4.0165e 01 -4.0315e 01 -4.0465e 01 -4.0615e 01 -4.0765e 01 -4.0915e 01 -4.1065e 01 -4.1215e 01 -4.1365e 01 -4.1515e 01
-4.1665e 01 -4.1815e 01 -4.1965e 01 -4.2115e 01 -4.2265e 01 -4.2415e 01 -4.2565e 01 -4.2715e 01 -4.2865e 01 -4.3015e 01
-4.3165e 01 -4.3315e 01 -4.3465e 01 -4.3615e 01 -4.3765e 01 -4.3915e 01 -4.4065e 01 -4.4215e 01 -4.4365e 01 -4.4515e 01
-4.4665e 01 -4.4815e 01 -4.4965e 01 -4.5115e 01 -4.5265e 01 -4.5415e 01 -4.5565e 01 -4.5715e 01 -4.5865e 01 -4.6015e 01
-4.6165e 01 -4.6315e 01 -4.6465e 01 -4.6615e 01 -4.6765e 01 -4.6915e 01 -4.7065e 01 -4.7215e 01 -4.7365e 01 -4.7515e 01
-4.7665e 01 -4.7815e 01 -4.7965e 01 -4.8115e 01 -4.8265e 01 -4.8415e 01 -4.8565e 01 -4.8715e 01 -4.8865e 01 -4.9015e 01
-4.9165e 01 -4.9315e 01 -4.9465e 01 -4.9615e 01 -4.9765e 01 -4.9915e 01 -5.0065e 01 -5.0215e 01 -5.0365e 01 -5.0515e 01
-5.0665e 01 -5.0815e 01 -5.0965e 01 -5.1115e 01 -5.1265e 01 -5.1415e 01 -5.1565e 01 -5.1715e 01 -5.1865e 01 -5.2015e 01
-5.2165e 01 -5.2315e 01 -5.2465e 01 -5.2615e 01 -5.2765e 01 -5.2915e 01 -5.3065e 01 -5.3215e 01 -5.3365e 01 -5.3515e 01
-5.3665e 01 -5.3815e 01 -5.3965e 01 -5.4115e 01 -5.4265e 01 -5.4415e 01 -5.4565e 01 -5.4715e 01 -5.4865e 01 -5.5015e 01
-5.5165e 01 -5.5315e 01 -5.5465e 01 -5.5615e 01 -5.5765e 01 -5.5915e 01 -5.6065e 01 -5.6215e 01 -5.6365e 01 -5.6515e 01
-5.6665e 01 -5.6815e 01 -5.6965e 01 -5.7115e 01 -5.7265e 01 -5.7415e 01 -5.7565e 01 -5.7715e 01 -5.7865e 
```

$$-0.12276 \text{ O} -0.22076 \text{ O} -0.24886 \text{ O} -0.34876 \text{ O} -0.50576 \text{ O} -0.64076 \text{ O} -0.74076 \text{ O} -0.80476 \text{ O} -0.84076 \text{ O} -0.85476 \text{ O} -0.84076 \text{ O} -0.74076 \text{ O} -0.64076 \text{ O} -0.50576 \text{ O} -0.34876 \text{ O} -0.24886 \text{ O} -0.22076 \text{ O} -0.12276 \text{ O}$$

0.10726 0.21116 0.22056 0.0 -0.45921 0.0 -0.42616 0.0 -0.44461 0.0 -0.41116 0.0 -0.42901 0.0 -0.46274 0.0 -0.40674 0.0

[illegible]

0.4666 07 -0.1566 08 -0.2004 06 -0.2511 05 -0.2694 04 -0.2825 03 -0.2891 02 -0.2910 01 -0.2891 00 -0.1810 09 -0.1372 08 -0.1010 07 -0.1010 06 -0.2241 05 -0.2241 04 -0.2671 03 -0.2241 02 -0.2241 01 -0.2241 00

6.402L of -0.4195E of -0.5042E of -0.7674E of -0.1155E of -0.1170E of -0.1161E of -0.1226E of -0.0849E of -0.4496E of -0.0535E of 0.0.2113E of 0.0.4941E of 0.0.5141E of

-0.21476 of -0.44104, if 0.51981 or 0.25408 of 0.44104 of 0.44104 of 0.44104

0.4528 of 0.0554 of 0.0494 of 0.2631 of 0.2674 of 0.5402 of 0.2494 of 0.4624 of

[illegible]

NUMBER EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 48

[illegible]

FUNCTION EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 30

	62.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5m	07.5m
57.5m																		
52.5m																		
47.5m																		
42.5m																		
37.5m																		
32.5m																		
27.5m																		
22.5m																		
17.5m																		
12.5m																		
07.5m																		
02.5m																		

0.4272E OF 0.5535E OF 0.4408E OF 0.4152E OF 0.2722E OF 0.2405E OF

0.2702E OF -0.5285E OF -0.5867E OF -0.5686E OF -0.5875E OF -0.5003E OF -0.2865E OF

-0.4210E OF -0.1608E OF -0.1551E OF -0.1532E OF -0.1511E OF -0.1491E OF -0.1472E OF -0.1453E OF -0.1434E OF

-0.1403E OF -0.1384E OF -0.1365E OF -0.1346E OF -0.1327E OF -0.1308E OF -0.1289E OF -0.1270E OF -0.1251E OF

-0.1232E OF -0.1213E OF -0.1194E OF -0.1175E OF -0.1156E OF -0.1137E OF -0.1118E OF -0.1099E OF -0.1080E OF

-0.1061E OF -0.1042E OF -0.1023E OF -0.1004E OF -0.9825E OF -0.9646E OF -0.9467E OF -0.9288E OF -0.9109E OF

-0.8930E OF -0.8751E OF -0.8572E OF -0.8393E OF -0.8214E OF -0.8035E OF -0.7856E OF -0.7677E OF -0.7498E OF

-0.7319E OF -0.7140E OF -0.6961E OF -0.6782E OF -0.6603E OF -0.6424E OF -0.6245E OF -0.6066E OF -0.5887E OF

-0.5708E OF -0.5529E OF -0.5350E OF -0.5171E OF -0.4992E OF -0.4813E OF -0.4634E OF -0.4455E OF -0.4276E OF

-0.4097E OF -0.3918E OF -0.3739E OF -0.3560E OF -0.3381E OF -0.3202E OF -0.3023E OF -0.2844E OF -0.2665E OF

-0.2486E OF -0.2307E OF -0.2128E OF -0.1949E OF -0.1770E OF -0.1591E OF -0.1412E OF -0.1233E OF -0.1054E OF

-0.0875E OF -0.0696E OF -0.0517E OF -0.0338E OF -0.0159E OF 0.0020E OF 0.0199E OF 0.0378E OF 0.0557E OF

0.0736E OF 0.0915E OF 0.1094E OF 0.1273E OF 0.1452E OF 0.1631E OF 0.1810E OF 0.1989E OF 0.2168E OF

0.2347E OF 0.2526E OF 0.2705E OF 0.2884E OF 0.3063E OF 0.3242E OF 0.3421E OF 0.3600E OF 0.3779E OF

0.3958E OF 0.4137E OF 0.4316E OF 0.4495E OF 0.4674E OF 0.4853E OF 0.5032E OF 0.5211E OF 0.5390E OF

0.5569E OF 0.5748E OF 0.5927E OF 0.6106E OF 0.6285E OF 0.6464E OF 0.6643E OF 0.6822E OF 0.7001E OF

0.7180E OF 0.7359E OF 0.7538E OF 0.7717E OF 0.7896E OF 0.8075E OF 0.8254E OF 0.8433E OF 0.8612E OF

0.8791E OF 0.8970E OF 0.9149E OF 0.9328E OF 0.9507E OF 0.9686E OF 0.9865E OF 1.0044E OF 1.0223E OF

1.0402E OF 1.0581E OF 1.0760E OF 1.0939E OF 1.1118E OF 1.1297E OF 1.1476E OF 1.1655E OF 1.1834E OF

1.2013E OF 1.2192E OF 1.2371E OF 1.2550E OF 1.2729E OF 1.2908E OF 1.3087E OF 1.3266E OF 1.3445E OF

1.3624E OF 1.3803E OF 1.3982E OF 1.4161E OF 1.4340E OF 1.4519E OF 1.4698E OF 1.4877E OF 1.5056E OF

1.5235E OF 1.5414E OF 1.5593E OF 1.5772E OF 1.5951E OF 1.6130E OF 1.6309E OF 1.6488E OF 1.6667E OF

1.6846E OF 1.7025E OF 1.7204E OF 1.7383E OF 1.7562E OF 1.7741E OF 1.7920E OF 1.8099E OF 1.8278E OF

1.8457E OF 1.8636E OF 1.8815E OF 1.8994E OF 1.9173E OF 1.9352E OF 1.9531E OF 1.9710E OF 1.9889E OF

07.56

57.5N	0.4081E 07 0.5092E 07 0.4755E 07 0.4166E 07 0.2888E 06
58.5N	0.6616E 06 -0.5378E 06 -0.3762E 07 -0.5523E 07 -0.5714E 07 -0.4870E 07 -0.2595E 07
59.5N	-0.4037E 07 -0.7146E 07 -0.1051E 08 -0.1208E 08 -0.1402E 08 -0.1522E 08 -0.1374E 08 -0.1042E 08 -0.5899E 07 -0.1595E 07 -0.3488E 06
60.5N	-0.4616E 07 -0.5099E 07 -0.5099E 07 -0.7466E 07 -0.1503E 08 -0.2201E 08 -0.2369E 08 -0.2398E 08 -0.2302E 08 -0.2007E 08 -0.1453E 08 -0.6782E 07
61.5N	-0.8266E 07 -0.1533E 08 -0.1723E 08 -0.2077E 08 -0.2456E 08 -0.2811E 08 -0.3156E 08 -0.3006E 08 -0.2680E 08 -0.2207E 08 -0.1489E 08 -0.5687E 07
62.5N	-0.9495E 07 -0.1408E 08 -0.2476E 08 -0.3274E 08 -0.4512E 08 -0.5620E 08 -0.5727E 08 -0.4606E 08 -0.3104E 08 -0.2632E 08 -0.1994E 08 -0.1185E 06 -0.3553E 07
63.5N	-0.4517E 07 -0.1705E 08 -0.2496E 08 -0.3272E 08 -0.4633E 08 -0.5798E 08 -0.5798E 08 -0.5615E 08 -0.3546E 08 -0.2373E 08 -0.1600E 08 -0.6543E 07
64.5N	-0.0866E 07 -0.1717E 08 -0.2226E 08 -0.2741E 08 -0.4302E 08 -0.5302E 08 -0.5326E 08 -0.4663E 08 -0.2729E 08 -0.2315E 08 -0.1711E 08 -0.9655E 07 -0.1770E 07
65.5N	-0.7677E 07 -0.1265E 08 -0.1651E 08 -0.1427E 08 -0.2266E 08 -0.2432E 08 -0.2466E 08 -0.2375E 08 -0.2074E 08 -0.1600E 08 -0.1249E 08 -0.7542E 07 -0.2171E 07 0.2100E 07
66.5N	-0.3229E 07 -0.3785E 07 -0.4557E 07 -0.6551E 07 -0.8434E 07 -0.1193E 08 -0.1257E 08 -0.1134E 08 -0.8619E 07 -0.5576E 07 -0.1688E 07 0.1028E 07 0.3155E 07 0.3204E 07
67.5N	-0.2011E 07 -0.1625E 07 -0.5417E 08 0.1474E 07 0.2871E 07 0.4206E 07 0.4157E 07 0.3756E 07 0.1672E 07 -0.3156E 06
68.5N	0.5346E 07 0.5101E 07 0.4707E 07 0.4707E 07 0.4206E 07 0.3406E 07 0.2169E 07 0.1472E 06 -0.3056E 06 -0.2109E 06 -0.2742E 06 -0.4446E 06

35.5E

[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION. SUPPLEMENT NO. 52

	02.5h	07.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5h	
51.5h								0.3731r	0.4067E	0.4455E	0.4819E	0.5191E	0.5576E	0.5974E	0.6385E	0.6808E	0.7243E	0.7690E
52.5h								0.5830E	0.6147E	0.6456E	0.6756E	0.7046E	0.7326E	0.7596E	0.7856E	0.8106E	0.8346E	0.8576E
57.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
58.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
67.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
72.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
77.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
82.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
87.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
92.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
97.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
102.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
107.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
112.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
117.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
122.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
127.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
132.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
137.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
142.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
147.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
152.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
157.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
162.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E	0.7	-0.4613E	0.7	-0.4046E
167.5h								-0.5711E	0.7	-0.6777E	0.7	-0.5959E	0.7	-0.5251E				

[illegible]

[illegible]

0.2661E 07 0.4205E 07 0.3871E 37 0.3455E 07 0.2631E 07 0.1818E 06 -0.2310E 06 -0.5587E 06

[illegible]

[illegible]

FRONTIER EXPANSION OF THE STREAM FUNCTION, COMPONENT NO. 37

	82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5m	07.5m
57.5m																		
52.5m																		
47.5m																		
42.5m																		
37.5m																		
32.5m																		
27.5m																		
22.5m																		
17.5m																		
12.5m																		
07.5m																		
02.5m																		

0.3550E OF 0.3642E OF 0.3547E OF 0.3120E OF 0.1940E OF 0.1798E OF

0.4447E OF -0.5318E OF -0.5092E OF -0.4524E OF -0.4707E OF -0.4655E OF -0.2179E OF

-0.4053E OF -0.5045E OF -0.8075E OF -0.1021E OF -0.1103E OF -0.1119E OF -0.4458E OF -0.4444E OF -0.1250E OF -0.3275E OF

-0.2556E OF -0.1417E OF -0.1727E OF -0.1661E OF -0.1423E OF -0.1862E OF -0.1659E OF -0.1250E OF -0.5722E OF

-0.5950E OF -0.4775E OF -0.1287E OF -0.1377E OF -0.2146E OF -0.2520E OF -0.2477E OF -0.1419E OF -0.1246E OF -0.4455E OF

-0.7011E OF -0.1311E OF -0.1856E OF -0.2204E OF -0.2505E OF -0.2775E OF -0.2440E OF -0.2440E OF -0.2440E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

-0.4053E OF -0.1225E OF -0.1794E OF -0.2251E OF -0.2193E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.2402E OF -0.4455E OF

[illegible]

[illegible]

[illegible]

	02.5M	07.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5M	07.5E	02.5E	07.5E
51.5N							0.2651E 07	0.3277E 07	0.3055E 07	0.2692E 07	0.1901E 07	0.1549E 06								
52.5N							0.3709E 06	-0.2765E 06	-0.4049E 07	-0.4225E 07	-0.4674E 07	-0.4974E 07								
53.5N							-0.2694E 07	-0.4915E 07	-0.1236E 08	-0.1516E 08	-0.1766E 08	-0.1659E 08	-0.1405E 08	-0.1074E 08	-0.5193E 07					
54.5N							-0.5968E 07	-0.1176E 08	-0.1404E 08	-0.1604E 08	-0.1765E 08	-0.1854E 08	-0.1639E 08	-0.1122E 08	-0.4553E 07					
55.5N							-0.5496E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
56.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
57.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
58.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
59.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
60.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
61.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
62.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
63.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
64.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
65.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
66.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
67.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
68.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
69.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08	-0.1369E 08	-0.1692E 08	-0.2151E 08	-0.2251E 08	-0.1954E 08	-0.1531E 08	-0.1022E 07				
70.5N							-0.5968E 07	-0.1038E 08	-0.1103E 08											

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FIGURE EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 63

	02.5h	07.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5h	07.5h
57.5h										
52.5h										
47.5h										
42.5h										
37.5h										
32.5h										
27.5h										
22.5h										
17.5h										
12.5h										
07.5h										
02.5h										

0.455E OF 0.405E OF 0.207E OF 0.251E OF 0.150E OF 0.144E OF

0.442E OF -0.402E OF -0.308E OF -0.187E OF -0.040E OF -0.147E OF

-0.245E OF -0.454E OF -0.665E OF -0.847E OF -0.999E OF -0.131E OF -0.231E OF -0.275E OF -0.311E OF -0.345E OF

-0.207E OF -0.245E OF -0.287E OF -0.332E OF -0.380E OF -0.430E OF -0.481E OF -0.532E OF -0.583E OF -0.634E OF

-0.685E OF -0.736E OF -0.787E OF -0.838E OF -0.889E OF -0.940E OF -0.991E OF -1.042E OF -1.093E OF -1.144E OF

-1.195E OF -1.246E OF -1.297E OF -1.348E OF -1.399E OF -1.450E OF -1.501E OF -1.552E OF -1.603E OF -1.654E OF

-1.705E OF -1.756E OF -1.807E OF -1.858E OF -1.909E OF -1.960E OF -2.011E OF -2.062E OF -2.113E OF -2.164E OF

-2.215E OF -2.266E OF -2.317E OF -2.368E OF -2.419E OF -2.470E OF -2.521E OF -2.572E OF -2.623E OF -2.674E OF

-2.725E OF -2.776E OF -2.827E OF -2.878E OF -2.929E OF -2.980E OF -3.031E OF -3.082E OF -3.133E OF -3.184E OF

-3.235E OF -3.286E OF -3.337E OF -3.388E OF -3.439E OF -3.490E OF -3.541E OF -3.592E OF -3.643E OF -3.694E OF

-3.745E OF -3.796E OF -3.847E OF -3.898E OF -3.949E OF -3.999E OF -4.050E OF -4.101E OF -4.152E OF -4.203E OF

3.175E OF 3.226E OF 3.277E OF 3.328E OF 3.379E OF 3.430E OF 3.481E OF 3.532E OF 3.583E OF 3.634E OF

[illegible]

02.5%

FRONTIER EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 05

	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5	102.5	107.5	112.5	117.5	122.5	127.5	132.5	137.5	142.5	147.5	152.5	157.5	162.5	167.5	172.5	177.5	182.5	187.5	192.5	197.5	202.5	207.5	212.5	217.5	222.5	227.5	232.5	237.5	242.5	247.5	252.5	257.5	262.5	267.5	272.5	277.5	282.5	287.5	292.5	297.5	302.5	307.5	312.5	317.5	322.5	327.5	332.5	337.5	342.5	347.5	352.5	357.5	362.5	367.5	372.5	377.5	382.5	387.5	392.5	397.5	402.5	407.5	412.5	417.5	422.5	427.5	432.5	437.5	442.5	447.5	452.5	457.5	462.5	467.5	472.5	477.5	482.5	487.5	492.5	497.5	502.5	507.5	512.5	517.5	522.5	527.5	532.5	537.5	542.5	547.5	552.5	557.5	562.5	567.5	572.5	577.5	582.5	587.5	592.5	597.5	602.5	607.5	612.5	617.5	622.5	627.5	632.5	637.5	642.5	647.5	652.5	657.5	662.5	667.5	672.5	677.5	682.5	687.5	692.5	697.5	702.5	707.5	712.5	717.5	722.5	727.5	732.5	737.5	742.5	747.5	752.5	757.5	762.5	767.5	772.5	777.5	782.5	787.5	792.5	797.5	802.5	807.5	812.5	817.5	822.5	827.5	832.5	837.5	842.5	847.5	852.5	857.5	862.5	867.5	872.5	877.5	882.5	887.5	892.5	897.5	902.5	907.5	912.5	917.5	922.5	927.5	932.5	937.5	942.5	947.5	952.5	957.5	962.5	967.5	972.5	977.5	982.5	987.5	992.5	997.5	1002.5	1007.5	1012.5	1017.5	1022.5	1027.5	1032.5	1037.5	1042.5	1047.5	1052.5	1057.5	1062.5	1067.5	1072.5	1077.5	1082.5	1087.5	1092.5	1097.5	1102.5	1107.5	1112.5	1117.5	1122.5	1127.5	1132.5	1137.5	1142.5	1147.5	1152.5	1157.5	1162.5	1167.5	1172.5	1177.5	1182.5	1187.5	1192.5	1197.5	1202.5	1207.5	1212.5	1217.5	1222.5	1227.5	1232.5	1237.5	1242.5	1247.5	1252.5	1257.5	1262.5	1267.5	1272.5	1277.5	1282.5	1287.5	1292.5	1297.5	1302.5	1307.5	1312.5	1317.5	1322.5	1327.5	1332.5	1337.5	1342.5	1347.5	1352.5	1357.5	1362.5	1367.5	1372.5	1377.5	1382.5	1387.5	1392.5	1397.5	1402.5	1407.5	1412.5	1417.5	1422.5	1427.5	1432.5	1437.5	1442.5	1447.5	1452.5	1457.5	1462.5	1467.5	1472.5	1477.5	1482.5	1487.5	1492.5	1497.5	1502.5	1507.5	1512.5	1517.5	1522.5	1527.5	1532.5	1537.5	1542.5	1547.5	1552.5	1557.5	1562.5	1567.5	1572.5	1577.5	1582.5	1587.5	1592.5	1597.5	1602.5	1607.5	1612.5	1617.5	1622.5	1627.5	1632.5	1637.5	1642.5	1647.5	1652.5	1657.5	1662.5	1667.5	1672.5	1677.5	1682.5	1687.5	1692.5	1697.5	1702.5	1707.5	1712.5	1717.5	1722.5	1727.5	1732.5	1737.5	1742.5	1747.5	1752.5	1757.5	1762.5	1767.5	1772.5	1777.5	1782.5	1787.5	1792.5	1797.5	1802.5	1807.5	1812.5	1817.5	1822.5	1827.5	1832.5	1837.5	1842.5	1847.5	1852.5	1857.5	1862.5	1867.5	1872.5	1877.5	1882.5	1887.5	1892.5	1897.5	1902.5	1907.5	1912.5	1917.5	1922.5	1927.5	1932.5	1937.5	1942.5	1947.5	1952.5	1957.5	1962.5	1967.5	1972.5	1977.5	1982.5	1987.5	1992.5	1997.5	2002.5	2007.5	2012.5	2017.5	2022.5	2027.5	2032.5	2037.5	2042.5	2047.5	2052.5	2057.5	2062.5	2067.5	2072.5	2077.5	2082.5	2087.5	2092.5	2097.5	2102.5	2107.5	2112.5	2117.5	2122.5	2127.5	2132.5	2137.5	2142.5	2147.5	2152.5	2157.5	2162.5	2167.5	2172.5	2177.5	2182.5	2187.5	2192.5	2197.5	2202.5	2207.5	2212.5	2217.5	2222.5	2227.5	2232.5	2237.5	2242.5	2247.5	2252.5	2257.5	2262.5	2267.5	2272.5	2277.5	2282.5	2287.5	2292.5	2297.5	2302.5	2307.5	2312.5	2317.5	2322.5	2327.5	2332.5	2337.5	2342.5	2347.5	2352.5	2357.5	2362.5	2367.5	2372.5	2377.5	2382.5	2387.5	2392.5	2397.5	2402.5	2407.5	2412.5	2417.5	2422.5	2427.5	2432.5	2437.5	2442.5	2447.5	2452.5	2457.5	2462.5	2467.5	2472.5	2477.5	2482.5	2487.5	2492.5	2497.5	2502.5	2507.5	2512.5	2517.5	2522.5	2527.5	2532.5	2537.5	2542.5	2547.5	2552.5	2557.5	2562.5	2567.5	2572.5	2577.5	2582.5	2587.5	2592.5	2597.5	2602.5	2607.5	2612.5	2617.5	2622.5	2627.5	2632.5	2637.5	2642.5	2647.5	2652.5	2657.5	2662.5	2667.5	2672.5	2677.5	2682.5	2687.5	2692.5	2697.5	2702.5	2707.5	2712.5	2717.5	2722.5	2727.5	2732.5	2737.5	2742.5	2747.5	2752.5	2757.5	2762.5	2767.5	2772.5	2777.5	2782.5	2787.5	2792.5	2797.5	2802.5	2807.5	2812.5	2817.5	2822.5	2827.5	2832.5	2837.5	2842.5	2847.5	2852.5	2857.5	2862.5	2867.5	2872.5	2877.5	2882.5	2887.5	2892.5	2897.5	2902.5	2907.5	2912.5	2917.5	2922.5	2927.5	2932.5	2937.5	2942.5	2947.5	2952.5	2957.5	2962.5	2967.5	2972.5	2977.5	2982.5	2987.5	2992.5	2997.5	3002.5	3007.5	3012.5	3017.5	3022.5	3027.5	3032.5	3037.5	3042.5	3047.5	3052.5	3057.5	3062.5	3067.5	3072.5	3077.5	3082.5	3087.5	3092.5	3097.5	3102.5	3107.5	3112.5	3117.5	3122.5	3127.5	3132.5	3137.5	3142.5	3147.5	3152.5	3157.5	3162.5	3167.5	3172.5	3177.5	3182.5	3187.5	3192.5	3197.5	3202.5	3207.5	3212.5	3217.5	3222.5	3227.5	3232.5	3237.5	3242.5	3247.5	3252.5	3257.5	3262.5	3267.5	3272.5	3277.5	3282.5	3287.5	3292.5	3297.5	3302.5	3307.5	3312.5	3317.5	3322.5	3327.5	3332.5	3337.5	3342.5	3347.5	3352.5	3357.5	3362.5	3367.5	3372.5	3377.5	3382.5	3387.5	3392.5	3397.5	3402.5	3407.5	3412.5	3417.5	3422.5	3427.5	3432.5	3437.5	3442.5	3447.5	3452.5	3457.5	3462.5	3467.5	3472.5	3477.5	3482.5	3487.5	3492.5	3497.5	3502.5	3507.5	3512.5	3517.5	3522.5	3527.5	3532.5	3537.5	3542.5	3547.5	3552.5	3557.5	3562.5	3567.5	3572.5	3577.5	3582.5	3587.5	3592.5	3597.5	3602.5	3607.5	3612.5	3617.5	3622.5	3627.5	3632.5	3637.5	3642.5	3647.5	3652.5	3657.5	3662.5	3667.5	3672.5	3677.5	3682.5	3687.5	3692.5	3697.5	3702.5	3707.5	3712.5	3717.5	3722.5	3727.5	3732.5	3737.5	3742.5	3747.5	3752.5	3757.5	3762.5	3767.5	3772.5	3777.5	3782.5	3787.5	3792.5	3797.5	3802.5	3807.5	3812.5	3817.5	3822.5	3827.5	3832.5	3837.5	3842.5	3847.5	3852.5	3857.5	3862.5	3867.5	3872.5	3877.5	3882.5	3887.5	3892.5	3897.5	3902.5	3907.5	3912.5	3917.5	3922.5	3927.5	3932.5	3937.5	3942.5	3947.5	3952.5	3957.5	3962.5	3967.5	3972.5	3977.5	3982.5	3987.5	3992.5	3997.5	4002.5	4007.5	4012.5	4017.5	4022.5	4027.5	4032.5	4037.5	4042.5	4047.5	4052.5	4057.5	4062.5	4067.5	4072.5	4077.5	4082.5	4087.5	4092.5	4097.5	4102.5	4107.5	4112.5	4117.5	4122.5	4127.5	4132.5	4137.5	4142.5	4147.5	4152.5	4157.5	4162.5	4167.5	4172.5	4177.5	4182.5	4187.5	4192.5	4197.5	4202.5	4207.5	4212.5	4217.5	4222.5	4227.5	4232.5	4237.5	4242.5	4247.5	4252.5	4257.5	4262.5	4267.5	4272.5	4277.5	4282.5	4287.5	4292.5	4297.5	4302.5	4307.5	4312.5	4317.5	4322.5	4327.5	4332.5	4337.5	4342.5	4347.5	4352.5	4357.5	4362.5	4367.5	4372.5	4377.5	4382.5	4387.5	4392.5	4397.5	4402.5	4407.5	4412.5	4417.5	4422.5	4427.5	4432.5	4437.5	4442.5	4447.5	4452.5	4457.5	4462.5	4467.5	4472.5	4477.5	4482.5	4487.5	4492.5	4497.5	4502.5	4507.5	4512.5	4517.5	4522.5	4527.5	4532.5	4537.5	4542.5	4547.5	4552.5	4557.5	4562.5	4567.5	4572.5	4577.5	4582.5	4587.5	4592.5	4597.5	4602.5	4607.5	4612.5	4617.5	4622.5	4627.5	4632.5	4637.5	4642.5	4647.5	4652.5	4657.5	4662.5	4667.5	4672.5	4677.5	4682.5	4687.5	4692.5	4697.5	4702.5	4707.5	4712.5	4717.5	4722.5	4727.5	4732.5	4737.5	4742.5	4747.5	4752.5	4757.5	4762.5	4767.5	4772.5	4777.5	4782.5	4787.5	4792.5	4797.5	4802.5	4807.5	4812.5	4817.5	4822.5	4827.5	4832.5	4837.5	4842.5	4847.5	4852.5	4857.5	4862.5	4867.5	4872.5	4877.5	4882.5	4887.5	4892.5	4897.5	4902.5	4907.5	4912.5	4917.5	4922.5	4927.5	4932.5	4937.5	4942.5	4947.5	4952.5	4957.5	4962.5	4967.5	4972.5	4977.5	4982.5	4987.5	4992.5	4997.5	5002.5	5007.5	5012.5	5017.5	5022.5	5027.5	5032.5	5037.5	5042.5	5047.5	5052.5	5057.5	5062.5	5067.5	5072.5	5077.5	5082.5	5087.5	5092.5	5097.5	5102.5	5107.5	5112.5	5117.5	5122.5	5127.5	5132.5	5137.5	5142.5	5147.5	5152.5	5157.5	5162.5	5167.5	5172.5	5177.5	5182.5	5187.5	5192.5	5197.5	5202.5	5207.5	5212.5	5217.5	5222.5	5227.5	5232.5	5237.5	5242.5	5247.5	5252.5	5257.5	5262.5	5267.5	5272.5	5277.5	5282.5	5287.5	5292.5	5297.5	5302.5	5307.5	5312.5	5317.5	5322.5	5327.5	5332.5	5337.5	5342.5	5347.5	5352.5	5357.5	5362.5	5367.5	5372.5	5377.5	5382.5	5387.5	5392.5	5397.5	5402.5	5407.5	5412.5	5417.5	5422.5	5427.5	5432.5	5437.5	5442.5	5447.5	5452.5	5457.5	5462.5	5467.5	5472.5	5477.5	5482.5	5487.5	5492.5	5497.5	5502.5	5507.5	5512.5	5517.5	5522.5	5527.5	5532.5	5537.5	5542.5	5547.5	5552.5	5557.5	5562.5	5567.5	5572.5	5577.5	5582.5	5587.5	5592.5	5597.5	5602.5	5607.5	5612.5	5617.5	5622.5	5627.5	5632.5	5637.5	5642.5	5647.5	5652.5	5657.5	5662.5	5667.5	5672.5	5677.5	5682.5	5687.5	5692.5	5697.5	5702.5	5707.5	5712.5	5717.5	5722.5	5727.5	5732.5	5
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	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5
53.5N										0.2220E 07	0.2764E 07	0.2513E 07	0.2271E 07	0.1439E 07	0.1403E 06	
52.5N									0.3047E 06	-0.4535E 06	-0.2414E 07	-0.5538E 07	-0.1706E 07	-0.3165E 07	-0.1747E 07	
47.5N							-0.2215E 07	-0.4174E 07	-0.6066E 07	-0.7756E 07	-0.9085E 07	-0.9462E 07	-0.8734E 07	-0.8775E 07	-0.3954E 07	-0.2195E 06
42.5N				-0.1795E 07	-0.2593E 07	-0.3983E 07	-0.7256E 07	-0.1053E 08	-0.1500E 08	-0.1432E 08	-0.1479E 08	-0.1445E 08	-0.1282E 08	-0.4448E 07	-0.4609E 07	
37.5N			-0.4160E 07	-0.6453E 07	-0.4259E 07	-0.1150E 08	-0.1398E 08	-0.1042E 08	-0.1852E 08	-0.1930E 08	-0.1878E 08	-0.1707E 08	-0.1436E 08	-0.4995E 07	-0.4087E 07	
32.5N		-0.4462E 07	-0.9257E 07	-0.1313E 08	-0.1603E 08	-0.1483E 08	-0.2030E 08	-0.2186E 08	-0.2177E 08	-0.2119E 08	-0.1977E 08	-0.1777E 08	-0.1564E 08	-0.4223E 07	-0.2574E 07	
27.5N	-0.4122E 07	-0.4955E 07	-0.1273E 08	-0.1602E 08	-0.1659E 08	-0.2065E 08	-0.2220E 08	-0.2273E 08	-0.2228E 08	-0.2114E 08	-0.1913E 08	-0.1594E 08	-0.1110E 08	-0.4475E 07		
22.5N	-0.4777E 07	-0.3566E 07	-0.1165E 08	-0.1472E 08	-0.1732E 08	-0.1909E 08	-0.2017E 08	-0.2050E 08	-0.1928E 08	-0.1769E 08	-0.1546E 08	-0.1147E 08	-0.7255E 07	-0.1935E 07		
17.5N	-0.3883E 07	-0.6519E 07	-0.4950E 07	-0.1031E 08	-0.1271E 08	-0.1406E 08	-0.1494E 08	-0.1408E 08	-0.1358E 08	-0.1194E 08	-0.8365E 07	-0.6087E 07	-0.2558E 07	0.4923E 06		
12.5N	-0.1512E 07	-0.1731E 07	-0.2144E 07	-0.3255E 07	-0.4448E 07	-0.6985E 07	-0.7712E 07	-0.7477E 07	-0.6337E 07	-0.4466E 07	-0.2453E 07	-0.6257E 08	0.1607E 07	0.1531E 07		
07.5N						-0.1274E 07	-0.1544E 07	-0.4603E 08	-0.1479E 08	0.6512E 06	0.1553E 07	0.1724E 07	0.1781E 07	0.8547E 06	-0.1797E 06	
2.5N								0.1536E 07	0.2512E 07	0.2300E 07	0.2046E 07	0.1771E 07	0.1129E 07	0.4171E 08	-0.2967E 06	-0.1346E 06

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82.58	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	7.5	2.58
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[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION COMPONENTS 12. 09

[illegible]

FOURIER EXPANSION OF THE STREAM FUNCTION COMPONENT NO. 2

	02.5N	07.5	12.5	17.5	22.5	27.5	32.5	37.5	42.5	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5N	
57.5N							0.1959E OF 0.2427E OF 0.2267E OF 0.2002E OF 0.1271E OF 0.1166E OF											
52.5N							0.2666E OF -0.4155E OF -0.2173E OF -0.5185E OF -0.3396E OF -0.2692E OF -0.1589E OF											
47.5N							-0.1990E OF -0.1692E OF -0.5399E OF -0.6925E OF -0.8190E OF -0.8521E OF -0.7875E OF -0.6131E OF -0.3502E OF -0.2607E OF											
42.5N							-0.1955E OF -0.6042E OF -0.6192E OF -0.4535E OF -0.1150E OF -0.1280E OF -0.1327E OF -0.1307E OF -0.1157E OF -0.4556E OF -0.4204E OF											
37.5N							-0.3615E OF -0.6042E OF -0.8119E OF -0.1013E OF -0.1237E OF -0.1459E OF -0.1659E OF -0.1728E OF -0.1696E OF -0.1547E OF -0.1299E OF -0.3732E OF											
32.5N							-0.4211E OF -0.8046E OF -0.1154E OF -0.1411E OF -0.1602E OF -0.1728E OF -0.1702E OF -0.1781E OF -0.1557E OF -0.1274E OF -0.7519E OF -0.2389E OF											
27.5N							-0.2573E OF -0.7422E OF -0.1111E OF -0.1409E OF -0.1592E OF -0.1724E OF -0.1724E OF -0.2006E OF -0.1997E OF -0.1902E OF -0.1419E OF -0.1019E OF											
22.5N							-0.4071E OF -0.7422E OF -0.1254E OF -0.1526E OF -0.1526E OF -0.1794E OF -0.1728E OF -0.1597E OF -0.1455E OF -0.1077E OF -0.6697E OF -0.1862E OF											
17.5N							-0.2179E OF -0.5476E OF -0.1455E OF -0.1120E OF -0.1246E OF -0.1331E OF -0.1322E OF -0.1224E OF -0.1053E OF -0.0599E OF -0.5657E OF -0.2467E OF 0.4249E OF											
12.5N							-0.1294E OF -0.1479E OF -0.1037E OF -0.0425E OF -0.4890E OF -0.6891E OF -0.5793E OF -0.4269E OF -0.2394E OF -0.7337E OF 0.7692E OF 0.1505E OF											
07.5N							-0.1137E OF -0.1231E OF -0.4535E OF -0.2499E OF 0.4439E OF 0.1239E OF 0.1472E OF 0.1472E OF 0.1520E OF 0.7311E OF -0.1629E OF											
02.5N							3.1153E OF 0.2177E OF 0.1988E OF 0.1760E OF 0.1477E OF 0.1477E OF 0.1612E OF 0.1612E OF -0.2634E OF -0.2619E OF -0.1104E OF -0.1329E OF -0.3506E OF											

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EXPANSION OF THE STANDARD FUNCTIONAL COMPONENTS AND ITS	77.5	78.5	80.5	82.5	84.5	86.5	88.5	90.5	92.5	94.5	96.5	98.5	100.5	102.5	104.5	106.5	108.5	110.5	112.5	114.5	116.5	118.5	120.5	122.5	124.5	126.5	128.5	130.5	132.5	134.5	136.5	138.5	140.5	142.5	144.5	146.5	148.5	150.5	152.5	154.5	156.5	158.5	160.5	162.5	164.5	166.5	168.5	170.5	172.5	174.5	176.5	178.5	180.5	182.5	184.5	186.5	188.5	190.5	192.5	194.5	196.5	198.5	200.5	202.5	204.5	206.5	208.5	210.5	212.5	214.5	216.5	218.5	220.5	222.5	224.5	226.5	228.5	230.5	232.5	234.5	236.5	238.5	240.5	242.5	244.5	246.5	248.5	250.5	252.5	254.5	256.5	258.5	260.5	262.5	264.5	266.5	268.5	270.5	272.5	274.5	276.5	278.5	280.5	282.5	284.5	286.5	288.5	290.5	292.5	294.5	296.5	298.5	300.5	302.5	304.5	306.5	308.5	310.5	312.5	314.5	316.5	318.5	320.5	322.5	324.5	326.5	328.5	330.5	332.5	334.5	336.5	338.5	340.5	342.5	344.5	346.5	348.5	350.5	352.5	354.5	356.5	358.5	360.5	362.5	364.5	366.5	368.5	370.5	372.5	374.5	376.5	378.5	380.5	382.5	384.5	386.5	388.5	390.5	392.5	394.5	396.5	398.5	400.5	402.5	404.5	406.5	408.5	410.5	412.5	414.5	416.5	418.5	420.5	422.5	424.5	426.5	428.5	430.5	432.5	434.5	436.5	438.5	440.5	442.5	444.5	446.5	448.5	450.5	452.5	454.5	456.5	458.5	460.5	462.5	464.5	466.5	468.5	470.5	472.5	474.5	476.5	478.5	480.5	482.5	484.5	486.5	488.5	490.5	492.5	494.5	496.5	498.5	500.5	502.5	504.5	506.5	508.5	510.5	512.5	514.5	516.5	518.5	520.5	522.5	524.5	526.5	528.5	530.5	532.5	534.5	536.5	538.5	540.5	542.5	544.5	546.5	548.5	550.5	552.5	554.5	556.5	558.5	560.5	562.5	564.5	566.5	568.5	570.5	572.5	574.5	576.5	578.5	580.5	582.5	584.5	586.5	588.5	590.5	592.5	594.5	596.5	598.5	600.5	602.5	604.5	606.5	608.5	610.5	612.5	614.5	616.5	618.5	620.5	622.5	624.5	626.5	628.5	630.5	632.5	634.5	636.5	638.5	640.5	642.5	644.5	646.5	648.5	650.5	652.5	654.5	656.5	658.5	660.5	662.5	664.5	666.5	668.5	670.5	672.5	674.5	676.5	678.5	680.5	682.5	684.5	686.5	688.5	690.5	692.5	694.5	696.5	698.5	700.5	702.5	704.5	706.5	708.5	710.5	712.5	714.5	716.5	718.5	720.5	722.5	724.5	726.5	728.5	730.5	732.5	734.5	736.5	738.5	740.5	742.5	744.5	746.5	748.5	750.5	752.5	754.5	756.5	758.5	760.5	762.5	764.5	766.5	768.5	770.5	772.5	774.5	776.5	778.5	780.5	782.5	784.5	786.5	788.5	790.5	792.5	794.5	796.5	798.5	800.5	802.5	804.5	806.5	808.5	810.5	812.5	814.5	816.5	818.5	820.5	822.5	824.5	826.5	828.5	830.5	832.5	834.5	836.5	838.5	840.5	842.5	844.5	846.5	848.5	850.5	852.5	854.5	856.5	858.5	860.5	862.5	864.5	866.5	868.5	870.5	872.5	874.5	876.5	878.5	880.5	882.5	884.5	886.5	888.5	890.5
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ADDRESS	CONTENTS	DATE	TIME	BY	REMARKS
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0002	00000002	0000	0000	0000	00000002
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0026	00000026	0000	0000	0000	00000026
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0028	00000028	0000	0000	0000	00000028
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0033	00000033	0000	0000	0000	00000033
0034	00000034	0000	0000	0000	00000034
0035	00000035	0000	0000	0000	00000035
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0052	00000052	0000	0000	0000	00000052
0053	00000053	0000	0000	0000	

FURTHER EXPANSION OF THE STREAM FUNCTION COMPONENT 161

[illegible]

[illegible]

AD-A067 404

NEW YORK UNIV BRONX GEOPHYSICAL SCIENCES LAB

F/G 4/2

A THREE DIMENSIONAL MODEL OF THE WIND DRIVEN HORIZONTAL VELOCIT--ETC(U)

OCT 63 E S HASSAN, F D MALONE

N62306-794

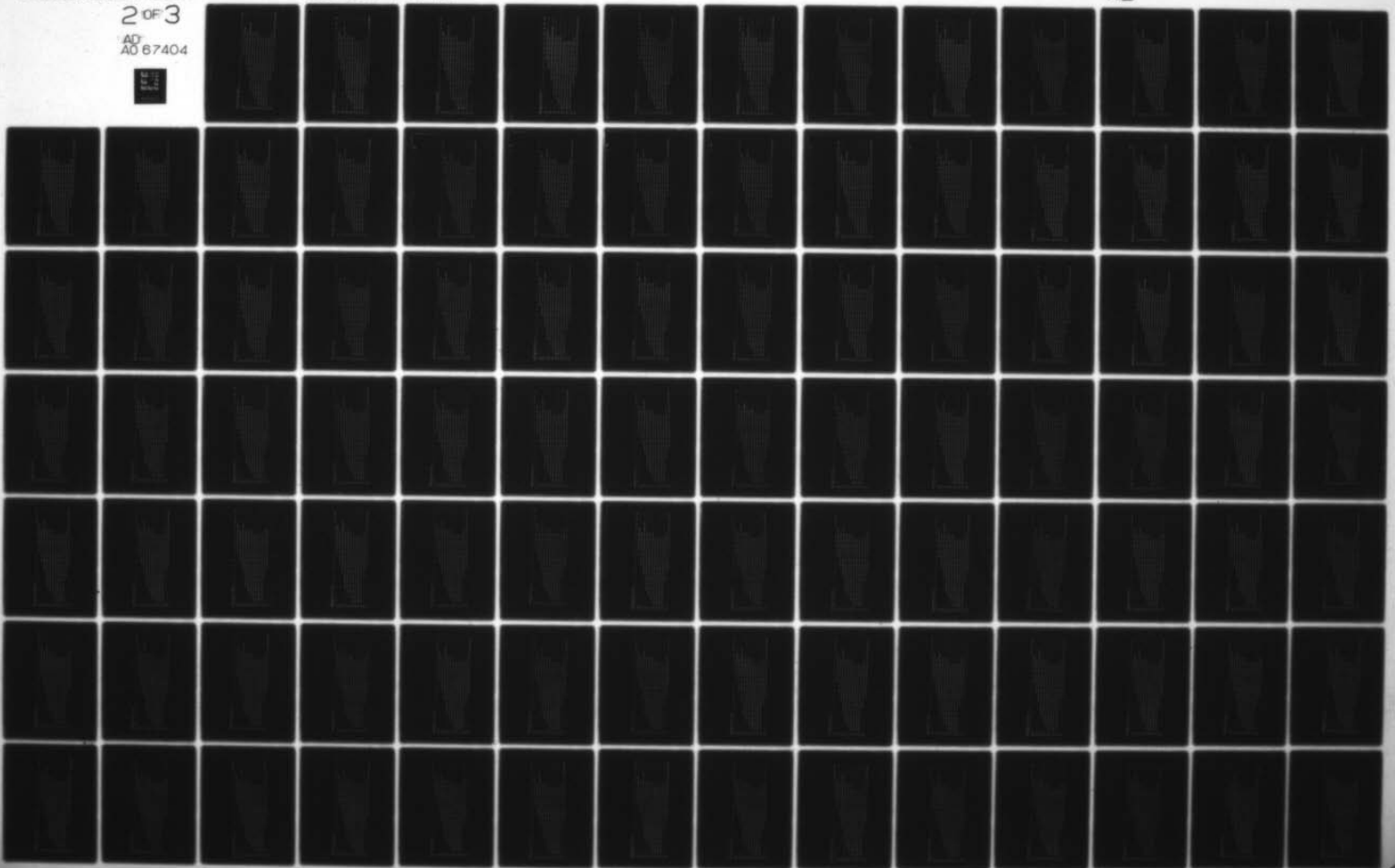
UNCLASSIFIED

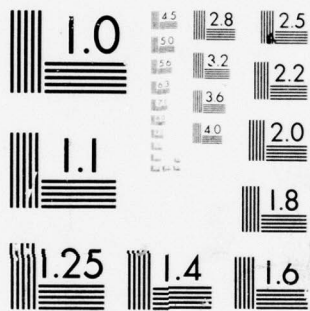
63-13-PT-1

NL

2 OF 3

AD
AD 67404





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

[illegible]

FORMER EXPANSION OF THE STRAIN FUNCTION-COMPONENT NO. 81

	82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5m	07.5m
97.5m											0.1442E 07	0.1741E 07	0.1662E 07	0.1470E 07	0.9567E 06	0.4365E 05		
92.5m										0.1493E 06	-0.3430E 06	-0.1657E 07	-0.2684E 07	-0.2361E 07	-0.2231E 07	-0.1241E 07		
87.5m										-0.1411E 07	-0.2719E 07	-0.4319E 07	-0.5425E 07	-0.6162E 07	-0.6567E 07	-0.6643E 07	-0.6742E 07	-0.6828E 06
82.5m										-0.1496E 07	-0.1576E 07	-0.2488E 07	-0.4000E 07	-0.5668E 07	-0.7445E 07	-0.9292E 07	-0.1100E 08	-0.1218E 08
77.5m										-0.2566E 07	-0.4127E 07	-0.5965E 07	-0.7980E 07	-0.9719E 07	-0.1127E 08	-0.1266E 08	-0.1404E 08	-0.1504E 08
72.5m										-0.2747E 07	-0.5176E 07	-0.8551E 07	-0.1129E 08	-0.1499E 08	-0.1828E 08	-0.2146E 08	-0.2454E 08	-0.2749E 08
67.5m										-0.2521E 07	-0.5282E 07	-0.7962E 07	-0.1021E 08	-0.1261E 08	-0.1517E 08	-0.1741E 08	-0.1931E 08	-0.2101E 08
62.5m										-0.2876E 07	-0.5276E 07	-0.7686E 07	-0.1016E 08	-0.1246E 08	-0.1486E 08	-0.1696E 08	-0.1876E 08	-0.2046E 08
57.5m										-0.2232E 07	-0.4556E 07	-0.6516E 07	-0.8116E 07	-0.9416E 07	-0.1051E 08	-0.1141E 08	-0.1216E 08	-0.1276E 08
52.5m										-0.2027E 07	-0.4107E 07	-0.5877E 07	-0.7377E 07	-0.8677E 07	-0.9777E 07	-0.1077E 08	-0.1167E 08	-0.1247E 08
47.5m										-0.1827E 07	-0.3627E 07	-0.5127E 07	-0.6327E 07	-0.7327E 07	-0.8127E 07	-0.8827E 07	-0.9427E 07	-0.9927E 07
42.5m										-0.1627E 07	-0.3227E 07	-0.4527E 07	-0.5627E 07	-0.6527E 07	-0.7227E 07	-0.7827E 07	-0.8327E 07	-0.8727E 07
37.5m										-0.1427E 07	-0.2827E 07	-0.4027E 07	-0.5027E 07	-0.5827E 07	-0.6527E 07	-0.7127E 07	-0.7627E 07	-0.8027E 07
32.5m										-0.1227E 07	-0.2427E 07	-0.3527E 07	-0.4427E 07	-0.5127E 07	-0.5727E 07	-0.6227E 07	-0.6627E 07	-0.6927E 07
27.5m										-0.1027E 07	-0.2027E 07	-0.3027E 07	-0.3827E 07	-0.4527E 07	-0.5127E 07	-0.5627E 07	-0.6027E 07	-0.6327E 07
22.5m										-0.0827E 07	-0.1627E 07	-0.2427E 07	-0.3127E 07	-0.3727E 07	-0.4227E 07	-0.4627E 07	-0.4927E 07	-0.5127E 07
17.5m										-0.0627E 07	-0.1227E 07	-0.1827E 07	-0.2427E 07	-0.2927E 07	-0.3327E 07	-0.3627E 07	-0.3827E 07	-0.4027E 07
12.5m										-0.0427E 07	-0.0827E 07	-0.1227E 07	-0.1627E 07	-0.2027E 07	-0.2327E 07	-0.2527E 07	-0.2727E 07	-0.2827E 07
07.5m										-0.0227E 07	-0.0427E 07	-0.0627E 07	-0.0827E 07	-0.1027E 07	-0.1227E 07	-0.1327E 07	-0.1427E 07	-0.1527E 07
02.5m										-0.0127E 07	-0.0227E 07	-0.0327E 07	-0.0427E 07	-0.0527E 07	-0.0627E 07	-0.0727E 07	-0.0827E 07	-0.0927E 07

	07.5E	08.5E	09.5E	10.5E	11.5E	12.5E	13.5E	14.5E	15.5E	16.5E	17.5E	18.5E	19.5E	20.5E	21.5E	22.5E	23.5E	24.5E	25.5E	26.5E	27.5E	28.5E	29.5E	30.5E	31.5E	32.5E	33.5E	34.5E	35.5E	36.5E	37.5E	38.5E	39.5E	40.5E	41.5E	42.5E	43.5E	44.5E	45.5E	46.5E	47.5E	48.5E	49.5E	50.5E	51.5E	52.5E	53.5E	54.5E	55.5E	56.5E	57.5E	58.5E	59.5E	60.5E	61.5E	62.5E	63.5E	64.5E	65.5E	66.5E	67.5E	68.5E	69.5E	70.5E	71.5E	72.5E	73.5E	74.5E	75.5E	76.5E	77.5E	78.5E	79.5E	80.5E	81.5E	82.5E	83.5E	84.5E	85.5E	86.5E	87.5E	88.5E	89.5E	90.5E	91.5E	92.5E	93.5E	94.5E	95.5E	96.5E	97.5E	98.5E	99.5E	100.5E	101.5E	102.5E	103.5E	104.5E	105.5E	106.5E	107.5E	108.5E	109.5E	110.5E	111.5E	112.5E	113.5E	114.5E	115.5E	116.5E	117.5E	118.5E	119.5E	120.5E	121.5E	122.5E	123.5E	124.5E	125.5E	126.5E	127.5E	128.5E	129.5E	130.5E	131.5E	132.5E	133.5E	134.5E	135.5E	136.5E	137.5E	138.5E	139.5E	140.5E	141.5E	142.5E	143.5E	144.5E	145.5E	146.5E	147.5E	148.5E	149.5E	150.5E	151.5E	152.5E	153.5E	154.5E	155.5E	156.5E	157.5E	158.5E	159.5E	160.5E	161.5E	162.5E	163.5E	164.5E	165.5E	166.5E	167.5E	168.5E	169.5E	170.5E	171.5E	172.5E	173.5E	174.5E	175.5E	176.5E	177.5E	178.5E	179.5E	180.5E	181.5E	182.5E	183.5E	184.5E	185.5E	186.5E	187.5E	188.5E	189.5E	190.5E	191.5E	192.5E	193.5E	194.5E	195.5E	196.5E	197.5E	198.5E	199.5E	200.5E	201.5E	202.5E	203.5E	204.5E	205.5E	206.5E	207.5E	208.5E	209.5E	210.5E	211.5E	212.5E	213.5E	214.5E	215.5E	216.5E	217.5E	218.5E	219.5E	220.5E	221.5E	222.5E	223.5E	224.5E	225.5E	226.5E	227.5E	228.5E	229.5E	230.5E	231.5E	232.5E	233.5E	234.5E	235.5E	236.5E	237.5E	238.5E	239.5E	240.5E	241.5E	242.5E	243.5E	244.5E	245.5E	246.5E	247.5E	248.5E	249.5E	250.5E	251.5E	252.5E	253.5E	254.5E	255.5E	256.5E	257.5E	258.5E	259.5E	260.5E	261.5E	262.5E	263.5E	264.5E	265.5E	266.5E	267.5E	268.5E	269.5E	270.5E	271.5E	272.5E	273.5E	274.5E	275.5E	276.5E	277.5E	278.5E	279.5E	280.5E	281.5E	282.5E	283.5E	284.5E	285.5E	286.5E	287.5E	288.5E	289.5E	290.5E	291.5E	292.5E	293.5E	294.5E	295.5E	296.5E	297.5E	298.5E	299.5E	300.5E	301.5E	302.5E	303.5E	304.5E	305.5E	306.5E	307.5E	308.5E	309.5E	310.5E	311.5E	312.5E	313.5E	314.5E	315.5E	316.5E	317.5E	318.5E	319.5E	320.5E	321.5E	322.5E	323.5E	324.5E	325.5E	326.5E	327.5E	328.5E	329.5E	330.5E	331.5E	332.5E	333.5E	334.5E	335.5E	336.5E	337.5E	338.5E	339.5E	340.5E	341.5E	342.5E	343.5E	344.5E	345.5E	346.5E	347.5E	348.5E	349.5E	350.5E	351.5E	352.5E	353.5E	354.5E	355.5E	356.5E	357.5E	358.5E	359.5E	360.5E	361.5E	362.5E	363.5E	364.5E	365.5E	366.5E	367.5E	368.5E	369.5E	370.5E	371.5E	372.5E	373.5E	374.5E	375.5E	376.5E	377.5E	378.5E	379.5E	380.5E	381.5E	382.5E	383.5E	384.5E	385.5E	38
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	07.5N	08.5N	09.5N	10.5N	11.5N	12.5N	13.5N	14.5N	15.5N	16.5N	17.5N	18.5N	19.5N	20.5N	21.5N	22.5N	23.5N	24.5N	25.5N	26.5N	27.5N	28.5N	29.5N	30.5N	31.5N	32.5N	33.5N	34.5N	35.5N	36.5N	37.5N	38.5N	39.5N	40.5N	41.5N	42.5N	43.5N	44.5N	45.5N	46.5N	47.5N	48.5N	49.5N	50.5N	51.5N	52.5N	53.5N	54.5N	55.5N	56.5N	57.5N	58.5N	59.5N	60.5N	61.5N	62.5N	63.5N	64.5N	65.5N	66.5N	67.5N	68.5N	69.5N	70.5N	71.5N	72.5N	73.5N	74.5N	75.5N	76.5N	77.5N	78.5N	79.5N	80.5N	81.5N	82.5N	83.5N	84.5N	85.5N	86.5N	87.5N	88.5N	89.5N	90.5N	91.5N	92.5N	93.5N	94.5N	95.5N	96.5N	97.5N	98.5N	99.5N	100.5N	101.5N	102.5N	103.5N	104.5N	105.5N	106.5N	107.5N	108.5N	109.5N	110.5N	111.5N	112.5N	113.5N	114.5N	115.5N	116.5N	117.5N	118.5N	119.5N	120.5N	121.5N	122.5N	123.5N	124.5N	125.5N	126.5N	127.5N	128.5N	129.5N	130.5N	131.5N	132.5N	133.5N	134.5N	135.5N	136.5N	137.5N	138.5N	139.5N	140.5N	141.5N	142.5N	143.5N	144.5N	145.5N	146.5N	147.5N	148.5N	149.5N	150.5N	151.5N	152.5N	153.5N	154.5N	155.5N	156.5N	157.5N	158.5N	159.5N	160.5N	161.5N	162.5N	163.5N	164.5N	165.5N	166.5N	167.5N	168.5N	169.5N	170.5N	171.5N	172.5N	173.5N	174.5N	175.5N	176.5N	177.5N	178.5N	179.5N	180.5N	181.5N	182.5N	183.5N	184.5N	185.5N	186.5N	187.5N	188.5N	189.5N	190.5N	191.5N	192.5N	193.5N	194.5N	195.5N	196.5N	197.5N	198.5N	199.5N	200.5N	201.5N	202.5N	203.5N	204.5N	205.5N	206.5N	207.5N	208.5N	209.5N	210.5N	211.5N	212.5N	213.5N	214.5N	215.5N	216.5N	217.5N	218.5N	219.5N	220.5N	221.5N	222.5N	223.5N	224.5N	225.5N	226.5N	227.5N	228.5N	229.5N	230.5N	231.5N	232.5N	233.5N	234.5N	235.5N	236.5N	237.5N	238.5N	239.5N	240.5N	241.5N	242.5N	243.5N	244.5N	245.5N	246.5N	247.5N	248.5N	249.5N	250.5N	251.5N	252.5N	253.5N	254.5N	255.5N	256.5N	257.5N	258.5N	259.5N	260.5N	261.5N	262.5N	263.5N	264.5N	265.5N	266.5N	267.5N	268.5N	269.5N	270.5N	271.5N	272.5N	273.5N	274.5N	275.5N	276.5N	277.5N	278.5N	279.5N	280.5N	281.5N	282.5N	283.5N	284.5N	285.5N	286.5N	287.5N	288.5N	289.5N	290.5N	291.5N	292.5N	293.5N	294.5N	295.5N	296.5N	297.5N	298.5N	299.5N	300.5N	301.5N	302.5N	303.5N	304.5N	305.5N	306.5N	307.5N	308.5N	309.5N	310.5N	311.5N	312.5N	313.5N	314.5N	315.5N	316.5N	317.5N	318.5N	319.5N	320.5N	321.5N	322.5N	323.5N	324.5N	325.5N	326.5N	327.5N	328.5N	329.5N	330.5N	331.5N	332.5N	333.5N	334.5N	335.5N	336.5N	337.5N	338.5N	339.5N	340.5N	341.5N	342.5N	343.5N	344.5N	345.5N	346.5N	347.5N	348.5N	349.5N	350.5N	351.5N	352.5N	353.5N	354.5N	355.5N	356.5N	357.5N	358.5N	359.5N	360.5N	361.5N	362.5N	363.5N	364.5N	365.5N	366.5N	367.5N	368.5N	369.5N	370.5N	371.5N	372.5N	373.5N	374.5N	375.5N	376.5N	377.5N	378.5N	379.5N	380.5N	381.5N	382.5N	383.5N	384.5N	385.5N	38
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C.1243E C7 0.1547E C7 0.1451E C7 C.1244E C7 C.8076E 06 0.7183E 05

0.1694E 06 -0.2623E 06 -0.1446E 07 -0.2111E 07 -0.2265E 07 -0.1461E 07 -0.1394E 07

-0.120/L of -0.233% of -0.367% of -0.403% of -0.585% of -0.674 of -0.529% of -0.416% of -0.247%

-0.4151E 20 -0.1599E 37 -0.2112E 37 -0.4002E 37 -0.5954E 37 -0.7490E 37 -0.8591E 37 -0.8779E 37 -0.9047E 37 -0.9365E 37 -0.9710E 37

$-0.214\text{E } 07$ $-0.304\text{E } 07$ $-0.520\text{E } 07$ $-0.635\text{E } 07$ $-0.7947\text{E } 07$ $-0.9519\text{E } 07$ $-0.1034\text{E } 08$ $-0.1117\text{E } 08$ $-0.1122\text{E } 08$ $-0.1034\text{E } 08$ $-0.8920\text{E } 07$ $-0.6222\text{E } 07$ $-0.2656\text{E } 07$

$-3.2346E$ CF $-0.4440E$ CF $-0.1125E$ OF $-0.4025E$ OF $-0.1029E$ OB $-0.1151E$ OB $-0.1236E$ OB $-0.1272E$ OB $-0.1260E$ CB $-0.1143E$ CB $-0.1051E$ CB $-0.8359E$ CF $-0.5424E$ CF $-0.1172E$

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$-0.1887E$ $3F$ $-0.5245E$ CF $-0.4544E$ $0F$ $-0.5554E$ $0F$ $-0.7322E$ $0F$ $-0.7450E$ $0F$ $-0.4601A$ $3F$ $-0.4777E$ $3F$ $-0.6247E$ $0F$ $-0.1206E$ $3F$ $-0.6202E$ $3F$ $-0.4111E$ $0F$ $-0.1662E$ $0F$ $-0.0883E$

-0.7601E 00 -0.9534E 00 -6.1749E 01 -0.1829E 01 -0.2829E 01 -0.3934E 01 -0.4942E 01 -0.5757E 01 -0.6017E 01 -0.6500E 01 -0.6741E 01 -0.7011E 01 -0.7290E 01 -0.7552E 01 -0.7798E 01 -0.8028E 01 -0.8242E 01 -0.8441E 01 -0.8625E 01 -0.8794E 01 -0.8948E 01 -0.9088E 01 -0.9214E 01 -0.9327E 01 -0.9428E 01 -0.9517E 01 -0.9594E 01 -0.9659E 01 -0.9713E 01 -0.9757E 01 -0.9791E 01 -0.9815E 01 -0.9830E 01 -0.9845E 01 -0.9859E 01 -0.9873E 01 -0.9887E 01 -0.9899E 01 -0.9911E 01 -0.9922E 01 -0.9933E 01 -0.9943E 01 -0.9953E 01 -0.9963E 01 -0.9973E 01 -0.9983E 01 -0.9993E 01 -1.0000E 01

-0.7230E 06 -0.8381E 06 -0.7231E 06 -0.3940E 06 0.6167E 05 2.5906E 06 0.7572E 06 0.8574E 06 0.4242E 06 0.4242E 06

0.104946 06 0.151576 07 0.11876 07 0.10497 07 0.07252 06 0.58876 06 0.22296 06 0.07113 06 0.07113 06

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FOURIER EXPANSION OF THE STREAM FUNCTION, COMPONENT NO. 91

	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5N	07.5E
57.5N											0.1132E 07	0.14C5E 07	0.1303E 07	0.1151E 07	0.7559E 06	0.1551E 05		
52.5N									0.1553E 06	-0.2589E 06	-0.1526E 07	-0.1922E 07	-0.2681E 07	-0.1812E 07	-0.1009E 07			
47.5N								-0.1094E 07	-0.2128E 07	-0.3171E 07	-0.4131E 07	-0.5204E 07	-0.6262E 07	-0.7333E 07	-0.8402E 07	-0.6482E 06	-0.1791E 06	
42.5N								-0.82C6E 06	-0.1195E 07	-0.1908E 07	-0.2635E 07	-0.3425E 07	-0.4289E 07	-0.5166E 07	-0.5596E 07	-0.2681E 07		
37.5N									-0.1967E 07	-0.3331E 07	-0.4596E 07	-0.5757E 07	-0.6713E 07	-0.7491E 07	-0.8119E 07	-0.5742E 07	-0.2442E 07	
32.5N									-0.22C7E 07	-0.4437E 07	-0.6466E 07	-0.8211E 07	-0.9365E 07	-0.1049E 08	-0.1155E 08	-0.1096E 08	-0.9657E 07	-0.1655E 07
27.5N									-0.1427E 07	-0.4052E 07	-0.6146E 07	-0.7922E 07	-0.9470E 07	-0.1054E 08	-0.1155E 08	-0.1205E 08	-0.1294E 08	-0.1031E 07
22.5N									-0.2193E 07	-0.4055E 07	-0.5617E 07	-0.7251E 07	-0.8707E 07	-1.0594E 08	-0.1251E 08	-0.1085E 08	-0.1055E 08	-0.9867E 07
17.5N									-0.1701E 07	-0.2975E 07	-0.4111E 07	-0.5041E 07	-0.5681E 07	-0.7222E 07	-0.7222E 07	-0.7466E 07	-0.5561E 07	-0.3425E 07
12.5N									-0.6834E 06	-0.4571E 06	-0.2578E 07	-0.1513E 07	-0.3579E 07	-0.4198E 07	-0.5692E 07	-0.2846E 07	-0.1768E 07	-0.781C 06
07.5N											-0.6553E 06	-0.7646E 06	-0.6745E 06	-0.5146E 06	0.2694E 05	0.4496E 06	0.6464E 06	0.3745E 06
02.5N																0.7121E 06	0.1191E 07	0.1072E 07

0.7121E 06 0.1191E 07 0.1072E 07 0.9457E 06 0.789C 06 0.5309E 06 0.1992E 06 -0.1589E 06 -0.6607E 05 -0.7698E 05 -0.1954E 06

4.1.

0.113/E OF 0.137/E OF 0.123/E OF 0.112/E OF 0.7195E 00 0.6382E 00

0.1523E 06 -0.2535E 06 -0.1298E 07 -0.1422E 07 -0.2039E 07 -0.1774E 07 -0.9696E 06

0.1066 17 -0.2204E 07 -0.4062E 07 -0.4611E 07 -0.5111E 07 -0.4763E 07 -0.3756E 07 -0.7245E 07 -0.6566E 06 -0.1760E 06

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0.127E 00 -0.312E 00 -0.146E 01 -0.340E 01 -0.441E 01 -0.491E 01 -0.500E 01 -0.491E 01 -0.441E 01 -0.340E 01 -0.146E 00 -0.312E 00

[illegible]

0.6944E 06 0.1169E 07 0.1046E 07 2.4205E 06 0.7637E 06 2.5178E 06 2.1472E 06 -2.1553E 06

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FRONTIER EXPANSION OF THE SINGULAR FUNCTION COMPONENT NO. 45

	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	7.5	2.5N	27.5N
57.5N											0.13504 OF 0.12464 CF 0.11916 OF 0.10596 CF 0.09658 OF 0.59658 OF							
52.5N										0.14506 OF -0.23788 OF -0.12204 CF -0.14194 OF -0.16724 CF -0.93571 OF								
47.5N										-0.99604 OF -0.27096 OF -0.51916 OF -0.45574 CF -0.47574 CF -0.44824 OF -0.35554 OF -0.21104 OF -0.60284 OF -0.16714 OF								
42.5N										-0.74214 OF -0.49634 OF -0.70424 OF -0.74594 OF -0.66604 OF -0.44944 OF -0.27404 OF								
37.5N										-0.17854 OF -0.50244 OF -0.78554 OF -0.95604 OF -0.94704 OF -0.74594 OF -0.53554 CF -0.22674 OF								
32.5N										-0.20474 OF -0.40544 OF -0.78554 OF -0.13554 OF -0.16704 OF -0.16624 OF -0.10104 OF -0.49494 OF								
27.5N										-0.17484 OF -0.50394 OF -0.82774 OF -0.68554 OF -0.13584 OF -0.11304 OF -0.11044 OF -0.10774 OF -0.48804 OF								
22.5N										-0.19884 OF -0.51044 OF -0.68074 OF -0.68074 OF -0.40544 OF -0.40544 OF -0.96844 OF -0.96844 OF -0.41424 OF -0.41424 OF -0.41424 OF								
17.5N										-0.15414 OF -0.37774 OF -0.54824 OF -0.64214 OF -0.64214 OF -0.64214 OF -0.64214 OF -0.64214 OF -0.64214 OF								
12.5N										-0.41904 OF -0.67104 OF -0.67104 OF -0.67104 OF -0.67104 OF -0.67104 OF -0.67104 OF -0.67104 OF -0.67104 OF								
07.5N										-0.59754 OF -0.62914 OF -0.62914 OF -0.62914 OF -0.62914 OF -0.62914 OF -0.62914 OF -0.62914 OF -0.62914 OF								
02.5N										0.66604 OF 0.17484 OF 0.27504 OF 0.27504 OF 0.27504 OF 0.27504 OF 0.27504 OF 0.27504 OF 0.27504 OF								

[illegible]

82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	7.5	2.5m
82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	7.5	2.5m

51.5N	0.4721E 06 -0.1276E 07 0.1117E 07 0.4665E 06 0.6517E 06 0.5580E 05
52.5N	0.1507E 06 -0.2235E 06 -0.1104E 07 -0.1771E 07 -0.1419E 07 -0.1575E 07 -0.4021E 06
53.5N	-0.4519E 06 -0.1822E 07 -0.5561E 07 -0.4751E 07 -0.4255E 07 -0.1535E 07 -0.1499E 07 -0.5710E 06 -0.1560E 06
54.5N	-0.4075E 06 -0.1737E 07 -0.5607E 07 -0.6621E 07 -0.6761E 07 -0.6911E 07 -0.4231E 07 -0.4775E 07 -0.2552E 07
55.5N	-0.1686E 07 -0.2627E 07 -0.5103E 07 -0.4476E 07 -0.7552E 07 -0.4440E 07 -0.8998E 07 -0.8724E 07 -0.7072E 07 -0.5015E 07 -0.2107E 07
56.5N	-0.1924E 07 -0.3767E 07 -0.5752E 07 -0.6881E 07 -0.7721E 07 -0.4074E 07 -0.4074E 07 -0.4531E 07 -0.4447E 07 -0.6718E 07 -0.4251E 07 -0.1419E 07
57.5N	-0.1686E 07 -0.3407E 07 -0.6175E 07 -0.6751E 07 -0.4537E 07 -0.4427E 07 -0.4144E 06 -0.1470E 06 -0.4321E 07 -0.4471E 07 -0.6127E 07 -0.5222E 07 -0.1247E 07
58.5N	-0.1853E 07 -0.3472E 07 -0.6175E 07 -0.6443E 07 -0.4594E 07 -0.4113E 07 -0.4162E 07 -0.4589E 07 -0.4050E 07 -0.4050E 07 -0.4050E 07 -0.4050E 07 -0.4050E 07
59.5N	-0.1436E 07 -0.2515E 07 -0.5411E 07 -0.6245E 07 -0.4255E 07 -0.4255E 07 -0.4255E 07 -0.4255E 07 -0.4255E 07 -0.4255E 07 -0.4255E 07 -0.4255E 07 -0.4255E 07
60.5N	-0.5751E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06 -0.4627E 06
61.5N	-0.5584E 06 -0.4613E 06 -0.5472E 06 -0.5168E 06 -0.5168E 06 -0.5168E 06 -0.5168E 06 -0.5168E 06 -0.5168E 06 -0.5168E 06 -0.5168E 06 -0.5168E 06
62.5N	0.6259E 06 0.1413E 07 0.4679E 06 0.1904E 06 0.6055E 06 0.4400E 06 0.1671E 06 -0.1772E 06 -0.4550E 06 -0.4550E 06 -0.4550E 06 -0.4550E 06

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

PERIPHERAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. 1

[illegible]

STREAP FUNCTION IN UNITS OF CP*+2/SEC. AT LEVEL NO. 2

	42.5m	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5	01.5	02.5m	07.5m
57.5m															
52.5m															
47.5m															
42.5m															
37.5m															
32.5m															
27.5m															
22.5m															
17.5m															
12.5m															
07.5m															
02.5m															

0.139ME IO 0.5895E 08 -0.2453E 0V -0.58ME 0V -0.3518E 0V -0.3852E 0V 0.347CE 07
0.2992E IO 0.1451E IO 0.1532E IC 0.6556E 0V 0.2024E 0V -0.5919E 0V
-0.7802E 0V -0.7415E 0V -0.1103E IO -0.1133E IO -0.1166E IO -0.4532E 0V -0.6979E 0V -0.3517E 0V -0.9184E 08 0.1154E 0V -0.9432E 08
-0.7802E 0V -0.7415E 0V -0.1103E IO -0.1133E IO -0.1166E IO -0.4532E 0V -0.6979E 0V -0.3517E 0V -0.9184E 08 0.1154E 0V -0.9432E 08
-0.7072E 0V -0.2189E 0V -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO -0.1272E IO
-0.2558E IO -0.1622E IO -0.2525E IO -0.2316E IO -0.2608E IO -0.2556E IO -0.2556E IO -0.2556E IO -0.2556E IO -0.2556E IO -0.2556E IO -0.2556E IO -0.2556E IO -0.2556E IO -0.2556E IO -0.2556E IO
-0.4171E IO -0.2724E IO -0.4043E IO -0.2671E IO -0.3559E IO -0.2410E IO -0.2492E IO -0.1646E IO -0.1631E IO -0.9874E 0V -0.8167E 0V -0.2476E 0V 0.1434E 08 0.4151E 0V
-0.4798E IO -0.4507E IC -0.2771E IO -0.3568E IO -0.2555E IO -0.2887E IO -0.1840E IO -0.1482E IO -0.1091E IO -0.1101E IO -0.2244E 0V -0.1242E 0V 0.5616E 0V
-0.3948E IO -0.1951E IC -0.3471E IC -0.2084E IO -0.2452E 0V -0.1230E IO -0.2885E 0V -0.4724E 0V -0.48C1E 0V 0.3677E 0V 0.8971E 0V
-0.2247E IO -0.1161E IC -0.1909E IO -0.0745E 0V -0.1801E IO -0.5117E 0V -0.4510E 0V -0.8077E 0V -0.9012E 0V 0.5427E 0V 0.5912E 0V 0.1022E IC 0.7563E 0V 0.7616E 0V
0.1041E IO 0.5421E 0V 0.1115E IC 0.4041E 0V 0.8632E 0V 0.3407E 0V 0.4559E 0V 0.6551E 0V 0.1387E IO 0.9279E 0V 0.1134E IO 0.7567E 0V 0.7468E 0V 0.2234E 0V
0.2012E IO 0.4157E 0V 0.1727E IO 0.7544E 0V 0.1130E IO 0.5465E 0V 0.4461E 0V -0.1594E 0V -0.1156E 0V -0.3466E 0V
0.1807E IO 0.5744E 0V 0.8605E 0V -0.2041E 08 0.2171E 0V -0.4182E 0V -0.1325E 0V -0.5117E 0V -0.9712E 08 -0.3725E 0V -0.1372E 0V -0.3760E 0V

	82.5W	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5W	07.5E
51.5N												
52.5N									0.1174E 01	0.2067E 01	0.4175E 01	0.1731E-00
57.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
58.5N									0.1057E 02	0.1432E 02	0.2651E 02	0.1112E 02
59.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
60.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
61.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
62.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
63.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
64.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
65.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
66.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
67.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
68.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
69.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
70.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
71.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
72.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
73.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
74.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
75.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
76.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
77.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
78.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
79.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
80.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
81.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02
82.5N									0.1151E 02	0.1419E 02	0.2651E 02	0.1112E 02

PERIPHERAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. 2

[illegible]

STREAM FUNCTION IN UNITS OF CM**2/SEC. AT LEVEL NO. 5

	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5N	07.5E
57.5N																		
52.5N																		
47.5N																		
42.5N																		
37.5N																		
32.5N																		
27.5N																		
22.5N																		
17.5N																		
12.5N																		
07.5N																		
02.5N																		

0.2450E 10 0.4025E 09 0.1248E 1C 0.2555E 0V 0.8120E 0V -0.5779E 0V

0.8869E 0V -0.3973E 08 -0.1248E 0V -0.3587E 0V -0.1215E 0S -0.1866E 0V 0.9294E 08

-0.4888E 0V -0.3054E 0V -0.5554E 0V -0.4554E 0V -0.4347E 0V -0.1082E 0V 0.4487E 0V 0.0944E 0V 0.1109E 0V -0.4034E 08

-0.4074E 0V -0.2664E 0V -0.7477E 0V -0.9806E 0V -0.6574E 0V -0.6401E 0V -0.5492E 0V -0.2105E 0V 0.1716E 08 0.1271E 0V

-0.1679E 1C -0.5882E 0V -0.1311E 10 -0.7507E 0V -0.1111E 10 -0.7538E 0V -0.4216E 0V -0.4339E 0V -0.4567E 08 -0.6797E 08 0.2488E 0V 0.2152E 0V

-0.2939E 10 -0.1134E 10 -0.2155E 10 -0.0915E 0V -0.1553E 10 -0.4557E 0V -0.4412E 0V 0.5157E 0V 0.1937E 0V 0.4214E 0S 0.3192E 0V 0.4145E 0V

-0.3503E 10 -0.1117E 10 -0.2472E 1C -0.7027E 0V -0.1910E 10 -0.4401E 0V -0.4037E 0V -0.3979E 0V -0.3888E 0V 0.2884E 0V 0.3587E 0V 0.5534E 0V 0.5037E 0V 0.6512E 0V

-0.2592E 10 -0.4434E 0V -0.1718E 10 -0.2447E 0V -0.1084E 10 0.1232E 0V -0.4411E 0V 0.4487E 0V -0.3774E 08 0.6097E 0V 0.2554E 0V 0.8911E 0V 0.4742E 0S 0.4493E 0V

-0.1305E 10 -0.1442E 0V -0.1247E 0V 0.1707E 0V -0.2657E 0V 0.5487E 0V 0.1612E 0V 0.7896E 0V 0.4895E 0V 0.8077E 0V 0.5763E 0V 0.4567E 0V 0.5344E 0V 0.6044E 0V

0.1296E 10 0.7276E 0V 0.1691E 1C 0.6515E 0V 0.1373E 1C 0.6445E 0V 0.1354E 10 0.7242E 0V 0.9942E 0V 0.6879E 0V 0.7718E 0V 0.5637E 0V 0.5344E 0V -0.1244E 0V

0.1721E 10 0.5454E 0V 0.1218E 10 0.2444E 0V 0.6509E 0V -0.1084E 0V 0.1044E 0V -0.5863E 0S -0.1661E 0V -0.3420E 0V

0.1227E 10 0.4440E 08 0.4007E 0V -0.3329E 0V 0.1460E 0V -0.4427E 0V -0.1277E 0V -0.4412E 0V -0.5028E 08 -0.3455E 0V -0.1045E 0V -0.5104E 0V

[illegible]

STREAM FUNCTION IN UNITS OF CM.²/SEC. AT LEVEL NO. N

	42.5m	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5	02.5m	07.5m
57.5m														
52.5m														
47.5m														
42.5m														
37.5m														
32.5m														
27.5m														
22.5m														
17.5m														
12.5m														
07.5m														
02.5m														

0.1925E 13 0.4571E 09 0.4868E 05 0.1122E 08 -0.9718E 08 -0.5419E 09

0.6519E 09 -0.1715E 09 -0.1529E 09 -0.1034E 09 -0.7382E 28 -0.1355E 09 0.9884E 08

-0.5107E 09 -0.1265E 09 -0.5218E 09 -0.1828E 09 -0.1928E 08 0.4198E 08 0.7557E 08 0.5893E 08 -0.9299E 08

-0.2621E 09 -0.1112E 09 -0.4870E 09 -0.5871E 09 -0.4792E 09 -0.5816E 09 -0.2518E 09 -0.1944E 09 -0.1054E 09 -0.2358E 08 0.8562E 08 0.4422E 08

-0.1088E 10 -0.4383E 08 -0.7111E 09 -0.1690E 09 -0.5437E 09 -0.1817E 09 -0.7153E 08 0.4182E 09 0.1397E 09 0.1870E 08 -0.1332E 09 0.1272E 09 0.4495E 08 0.2471E 09 0.1221E 09

-0.1945E 10 -0.1782E 09 -0.1121E 10 -0.1271E 08 -0.5176E 09 0.2357E 09 -0.7153E 08 0.4182E 09 0.1397E 09 0.1870E 08 -0.1332E 09 0.1272E 09 0.4495E 08 0.2471E 09 0.1221E 09

-0.2556E 10 -0.4467E 08 -0.1201E 10 0.2721E 09 -0.4823E 09 0.2778E 09 -0.2757E 09 0.4222E 09 -0.4487E 08 0.4833E 09 0.1174E 09 0.5347E 09 0.2172E 09 0.4497E 09

-0.1477E 10 0.5752E 09 -0.7819E 09 -0.3749E 09 0.4272E 09 -0.8589E 08 0.7301E 09 0.9658E 08 0.4598E 09 0.2192E 09 0.7472E 09 0.5347E 09 0.2172E 09 0.4497E 09

-0.4000E 09 0.5867E 09 -0.1720E 09 0.5521E 09 0.4247E 08 0.7232E 09 0.2467E 09 0.7557E 09 0.5328E 09 0.4874E 09 0.1468E 09 0.4467E 09 0.2758E 08 0.4497E 09

0.1377E 10 0.4893E 09 0.1214E 10 0.5461E 09 0.4247E 08 0.7232E 09 0.2467E 09 0.7557E 09 0.5328E 09 0.4874E 09 0.1468E 09 0.4467E 09 0.2758E 08 0.4497E 09

0.1252E 13 0.1515E 09 0.6565E 09 -0.1487E 09 0.2415E 09 -0.5897E 09 -0.6571E 08 -0.4497E 08 -0.1522E 09 -0.2379E 09

0.7048E 09 -0.2822E 09 0.1348E 09 -0.4657E 09 -0.7165E 08 -0.4751E 08 -0.8511E 08 -0.3713E 09 -0.5703E 08 -0.5183E 09 -0.7688E 08 -0.2788E 09

GENERAL VELOCITY IN UNITS OF C/P/3100 AT LEVEL 100. N

42.5N	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5	02.5N	07.5N
57.5N													
52.5N													
47.5N													
42.5N													
37.5N													
32.5N													
27.5N													
22.5N													
17.5N													
12.5N													
07.5N													
02.5N													

C.1222L 31 0.3674E C1 C.2146L 00 0.1411E C1 -0.1374E C1 0.4639E-01

0.5519E 31 0.2191E 31 C.2479E 02 0.5657E C1 0.7403E 01 -0.4519E C2 -0.1804E 01

0.5759E 31 0.5674E 01 0.1154E 02 C.6493E 20 -0.2719E C1 -0.2561E C1 0.4441E-00 0.5128E 00 -0.

-0.1161E 01 C.4519E 01 0.1252L 01 0.2479L 01 0.5507E 30 C.3174E-00 -0.1677E 31 -0.1716E-00 -0.1077E C1 0.5587E-00 -0.1222E 31 -0.2722E-00

0.2020E-00 0.1344E 02 -0.2192L 01 0.7404E 00 -0.2410L 01 -0.4000E 31 -0.4000E 31 -0.3077E C1 -0.4609E 01 -0.1236E C1 -0.2766E 31

0.1944E 01 0.1522E 01 -0.2722E 01 -0.1271E 01 -0.5490E 01 -0.2404E 01 -0.5019E 01 -0.7404E 01 0.4441E 01 -0.5557E 01 -0.2224E C1 0.1537E 01

0.1082E 02 -0.2722E 02 0.4000E 01 -0.1804E 02 0.5519E 01 -0.1252L 02 0.5019E 01 -0.7404E 01 0.4441E 01 -0.5557E 01 0.1601E C1 -0.4447E 01

-0.1401L 02 -0.4441E 00 -0.1154E 02 -0.1804E 01 -0.5490E 01 -0.2410L 01 -0.4000E 31 -0.4000E 31 -0.3077E C1 -0.4609E 01 -0.1236E C1 -0.2766E 31

-0.5077E 01 -0.5722E 01 -0.1444E 02 0.1716E 01 -0.4440E 01 0.1268L 01 0.1268L 01 0.1268L 01 0.1268L 01 0.1268L 01 0.1268L 01 0.1268L 01 0.1268L 01

-0.4440E 01 0.4440E 01 -0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01

0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01 0.4440E 01

0.7110E 31 -0.5165E 01 0.2479E 01 -0.5247E 01 -0.4627E 00 -0.5509E 01 -0.1411E C1 -0.4519E 01 -0.

	42.5m	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5	102.5	107.5	112.5	117.5	122.5	127.5	132.5	137.5	142.5	147.5	152.5	157.5	162.5	167.5	172.5	177.5	182.5	187.5	192.5	197.5	202.5	207.5	212.5	217.5	222.5	227.5	232.5	237.5	242.5	247.5	252.5	257.5	262.5	267.5	272.5	277.5	282.5	287.5	292.5	297.5	302.5	307.5	312.5	317.5	322.5	327.5	332.5	337.5	342.5	347.5	352.5	357.5	362.5	367.5	372.5	377.5	382.5	387.5	392.5	397.5	402.5	407.5	412.5	417.5	422.5	427.5	432.5	437.5	442.5	447.5	452.5	457.5	462.5	467.5	472.5	477.5	482.5	487.5	492.5	497.5	502.5	507.5	512.5	517.5	522.5	527.5	532.5	537.5	542.5	547.5	552.5	557.5	562.5	567.5	572.5	577.5	582.5	587.5	592.5	597.5	602.5	607.5	612.5	617.5	622.5	627.5	632.5	637.5	642.5	647.5	652.5	657.5	662.5	667.5	672.5	677.5	682.5	687.5	692.5	697.5	702.5	707.5	712.5	717.5	722.5	727.5	732.5	737.5	742.5	747.5	752.5	757.5	762.5	767.5	772.5	777.5	782.5	787.5	792.5	797.5	802.5	807.5	812.5	817.5	822.5	827.5	832.5	837.5	842.5	847.5	852.5	857.5	862.5	867.5	872.5	877.5	882.5	887.5	892.5	897.5	902.5	907.5	912.5	917.5	922.5	927.5	932.5	937.5	942.5	947.5	952.5	957.5	962.5	967.5	972.5	977.5	982.5	987.5	992.5	997.5	1002.5	1007.5	1012.5	1017.5	1022.5	1027.5	1032.5	1037.5	1042.5	1047.5	1052.5	1057.5	1062.5	1067.5	1072.5	1077.5	1082.5	1087.5	1092.5	1097.5	1102.5	1107.5	1112.5	1117.5	1122.5	1127.5	1132.5	1137.5	1142.5	1147.5	1152.5	1157.5	1162.5	1167.5	1172.5	1177.5	1182.5	1187.5	1192.5	1197.5	1202.5	1207.5	1212.5	1217.5	1222.5	1227.5	1232.5	1237.5	1242.5	1247.5	1252.5	1257.5	1262.5	1267.5	1272.5	1277.5	1282.5	1287.5	1292.5	1297.5	1302.5	1307.5	1312.5	1317.5	1322.5	1327.5	1332.5	1337.5	1342.5	1347.5	1352.5	1357.5	1362.5	1367.5	1372.5	1377.5	1382.5	1387.5	1392.5	1397.5	1402.5	1407.5	1412.5	1417.5	1422.5	1427.5	1432.5	1437.5	1442.5	1447.5	1452.5	1457.5	1462.5	1467.5	1472.5	1477.5	1482.5	1487.5	1492.5	1497.5	1502.5	1507.5	1512.5	1517.5	1522.5	1527.5	1532.5	1537.5	1542.5	1547.5	1552.5	1557.5	1562.5	1567.5	1572.5	1577.5	1582.5	1587.5	1592.5	1597.5	1602.5	1607.5	1612.5	1617.5	1622.5	1627.5	1632.5	1637.5	1642.5	1647.5	1652.5	1657.5	1662.5	1667.5	1672.5	1677.5	1682.5	1687.5	1692.5	1697.5	1702.5	1707.5	1712.5	1717.5	1722.5	1727.5	1732.5	1737.5	1742.5	1747.5	1752.5	1757.5	1762.5	1767.5	1772.5	1777.5	1782.5	1787.5	1792.5	1797.5	1802.5	1807.5	1812.5	1817.5	1822.5	1827.5	1832.5	1837.5	1842.5	1847.5	1852.5	1857.5	1862.5	1867.5	1872.5	1877.5	1882.5	1887.5	1892.5	1897.5	1902.5	1907.5	1912.5	1917.5	1922.5	1927.5	1932.5	1937.5	1942.5	1947.5	1952.5	1957.5	1962.5	1967.5	1972.5	1977.5	1982.5	19
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	42.5M	51.5M	57.5	67.5	72.5	87.5	97.5	107.5	117.5	127.5	137.5	147.5	157.5	167.5	177.5	187.5	197.5	207.5	217.5	227.5	237.5	247.5	257.5	267.5	277.5	287.5	297.5	307.5	317.5	327.5	337.5	347.5	357.5	367.5	377.5	387.5	397.5	407.5	417.5	427.5	437.5	447.5	457.5	467.5	477.5	487.5	497.5	507.5	517.5	527.5	537.5	547.5	557.5	567.5	577.5	587.5	597.5	607.5	617.5	627.5	637.5	647.5	657.5	667.5	677.5	687.5	697.5	707.5	717.5	727.5	737.5	747.5	757.5	767.5	777.5	787.5	797.5	807.5	817.5	827.5	837.5	847.5	857.5	867.5	877.5	887.5	897.5	907.5	917.5	927.5	937.5	947.5	957.5	967.5	977.5	987.5	997.5	1007.5	1017.5	1027.5	1037.5	1047.5	1057.5	1067.5	1077.5	1087.5	1097.5	1107.5	1117.5	1127.5	1137.5	1147.5	1157.5	1167.5	1177.5	1187.5	1197.5	1207.5	1217.5	1227.5	1237.5	1247.5	1257.5	1267.5	1277.5	1287.5	1297.5	1307.5	1317.5	1327.5	1337.5	1347.5	1357.5	1367.5	1377.5	1387.5	1397.5	1407.5	1417.5	1427.5	1437.5	1447.5	1457.5	1467.5	1477.5	1487.5	1497.5	1507.5	1517.5	1527.5	1537.5	1547.5	1557.5	1567.5	1577.5	1587.5	1597.5	1607.5	1617.5	1627.5	1637.5	1647.5	1657.5	1667.5	1677.5	1687.5	1697.5	1707.5	1717.5	1727.5	1737.5	1747.5	1757.5	1767.5	1777.5	1787.5	1797.5	1807.5	1817.5	1827.5	1837.5	1847.5	1857.5	1867.5	1877.5	1887.5	1897.5	1907.5	1917.5	1927.5	1937.5	1947.5	1957.5	1967.5	1977.5	1987.5	1997.5	2007.5	2017.5	2027.5	2037.5	2047.5	2057.5	2067.5	2077.5	2087.5	2097.5	2107.5	2117.5	2127.5	2137.5	2147.5	2157.5	2167.5	2177.5	2187.5	2197.5	2207.5	2217.5	2227.5	2237.5	2247.5	2257.5	2267.5	2277.5	2287.5	2297.5	2307.5	2317.5	2327.5	2337.5	2347.5	2357.5	2367.5	2377.5	2387.5	2397.5	2407.5	2417.5	2427.5	2437.5	2447.5	2457.5	2467.5	2477.5	2487.5	2497.5	2507.5	2517.5	2527.5	2537.5	2547.5	2557.5	2567.5	2577.5	2587.5	2597.5	2607.5	2617.5	2627.5	2637.5	2647.5	2657.5	2667.5	2677.5	2687.5	2697.5	2707.5	2717.5	2727.5	2737.5	2747.5	2757.5	2767.5	2777.5	2787.5	2797.5	2807.5	2817.5	2827.5	2837.5	2847.5	2857.5	2867.5	2877.5	2887.5	2897.5	2907.5	2917.5	2927.5	2937.5	2947.5	2957.5	2967.5	2977.5	2987.5	2997.5	3007.5	3017.5	3027.5	3037.5	3047.5	3057.5	3067.5	3077.5	3087.5	3097.5	3107.5	3117.5	3127.5	3137.5	3147.5	3157.5	3167.5	3177.5	3187.5	3197.5	3207.5	3217.5	3227.5	3237.5	3247.5	3257.5	3267.5	3277.5	3287.5	3297.5	3307.5	3317.5	3327.5	3337.5	3347.5	3357.5	3367.5	3377.5	3387.5	3397.5	3407.5	3417.5	3427.5	3437.5	3447.5	3457.5	3467.5	3477.5	3487.5	3497.5	3507.5	3517.5	3527.5	3537.5	3547.5	3557.5	3567.5	3577.5	3587.5	3597.5	3607.5	3617.5	3627.5	3637.5	3647.5	3657.5	3667.5	3677.5	3687.5	3697.5	3707.5	3717.5	3727.5	3737.5	3747.5	3757.5	3767.5	3777.5	3787.5	3797.5	3807.5	3817.5	3827.5	
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ZENITH VELOCITY IN UNITS OF CP./SEC. AT LEVEL NO. 5

	52.5N	57.5	62.5	67.5	72.5	77.5	82.5N	87.5	92.5	97.5	102.5	107.5	112.5	117.5	122.5	127.5	132.5	137.5	142.5	147.5	152.5	157.5	162.5	167.5	172.5	177.5	182.5	187.5	192.5	197.5	202.5	207.5	212.5	217.5	222.5	227.5	232.5	237.5	242.5	247.5	252.5	257.5	262.5	267.5	272.5	277.5	282.5	287.5	292.5	297.5	302.5	307.5	312.5	317.5	322.5	327.5	332.5	337.5	342.5	347.5	352.5	357.5	362.5	367.5	372.5	377.5	382.5	387.5	392.5	397.5	402.5	407.5	412.5	417.5	422.5	427.5	432.5	437.5	442.5	447.5	452.5	457.5	462.5	467.5	472.5	477.5	482.5	487.5	492.5	497.5	502.5	507.5	512.5	517.5	522.5	527.5	532.5	537.5	542.5	547.5	552.5	557.5	562.5	567.5	572.5	577.5	582.5	587.5	592.5	597.5	602.5	607.5	612.5	617.5	622.5	627.5	632.5	637.5	642.5	647.5	652.5	657.5	662.5	667.5	672.5	677.5	682.5	687.5	692.5	697.5	702.5	707.5	712.5	717.5	722.5	727.5	732.5	737.5	742.5	747.5	752.5	757.5	762.5	767.5	772.5	777.5	782.5	787.5	792.5	797.5	802.5	807.5	812.5	817.5	822.5	827.5	832.5	837.5	842.5	847.5	852.5	857.5	862.5	867.5	872.5	877.5	882.5	887.5	892.5	897.5	902.5	907.5	912.5	917.5	922.5	927.5	932.5	937.5	942.5	947.5	952.5	957.5	962.5	967.5	972.5	977.5	982.5	987.5	992.5	997.5	1002.5	1007.5	1012.5	1017.5	1022.5	1027.5	1032.5	1037.5	1042.5	1047.5	1052.5	1057.5	1062.5	1067.5	1072.5	1077.5	1082.5	1087.5	1092.5	1097.5	1102.5	1107.5	1112.5	1117.5	1122.5	1127.5	1132.5	1137.5	1142.5	1147.5	1152.5	1157.5	1162.5	1167.5	1172.5	1177.5	1182.5	1187.5	1192.5	1197.5	1202.5	1207.5	1212.5	1217.5	1222.5	1227.5	1232.5	1237.5	1242.5	1247.5	1252.5	1257.5	1262.5	1267.5	1272.5	1277.5	1282.5	1287.5	1292.5	1297.5	1302.5	1307.5	1312.5	1317.5	1322.5	1327.5	1332.5	1337.5	1342.5	1347.5	1352.5	1357.5	1362.5	1367.5	1372.5	1377.5	1382.5	1387.5	1392.5	1397.5	1402.5	1407.5	1412.5	1417.5	1422.5	1427.5	1432.5	1437.5	1442.5	1447.5	1452.5	1457.5	1462.5	1467.5	1472.5	1477.5	1482.5	1487.5	1492.5	1497.5	1502.5	1507.5	1512.5	1517.5	1522.5	1527.5	1532.5	1537.5	1542.5	1547.5	1552.5	1557.5	1562.5	1567.5	1572.5	1577.5	1582.5	1587.5	1592.5	1597.5	1602.5	1607.5	1612.5	1617.5	1622.5	1627.5	1632.5	1637.5	1642.5	1647.5	1652.5	1657.5	1662.5	1667.5	1672.5	1677.5	1682.5	1687.5	1692.5	1697.5	1702.5	1707.5	1712.5	1717.5	1722.5	1727.5	1732.5	1737.5	1742.5	1747.5	1752.5	1757.5	1762.5	1767.5	1772.5	1777.5	1782.5	1787.5	1792.5	1797.5	1802.5	1807.5	1812.5	1817.5	1822.5	1827.5	1832.5	1837.5	1842.5	1847.5	1852.5	1857.5	1862.5	1867.5	1872.5	1877.5	1882.5	1887.5	1892.5	1897.5	1902.5	1907.5	1912.5	1917.5	1922.5	1927.5	1932.5	1937.5	1942.5	1947.5	1952.5	1957.5	1962.5	1967.5	1972.5	1977.5	1982.5	1987.5	1992.5	1997.5	2002.5	2007.5	2012.5	2017.5	2022.5	2027.5	2032.5	2037.5	2042.5	2047.5	2052.5	2057.5	2062.5	2067.5	2072.5	2077.5	2082.5	2087.5	2092.5	2097.5	2102.5	2107.5	2112.5	2117.5	2122.5	2127.5	2132.5	2137.5	2142.5	2147.5	2152.5	2157.5	2162.5	2167.5	2172.5	2177.5	2182.5	2187.5	2192.5	2197.5	2202.5	2207.5	2212.5	2217.5	2222.5	2227.5	2232.5	2237.5	2242.5	2247.5	2252.5	2257.5	2262.5	2267.5	2272.5	2277.5	2282.5	2287.5	2292.5	2297.5	2302.5	2307.5	2312.5	2317.5	2322.5	2327.5	2332.5	2337.5	2342.5	2347.5	2352.5	2357.5	2362.5	2367.5	2372.5	2377.5	2382.5	2387.5	2392.5	2397.5	2402.5	2407.5	2412.5	2417.5	2422.5	2427.5	2432.5	2437.5	2442.5	2447.5	2452.5	2457.5	2462.5	2467.5	2472.5	2477.5	2482.5	2487.5	2492.5	2497.5	2502.5	2507.5	2512.5	2517.5	2522.5	2527.5	2532.5	2537.5	2542.5	2547.5	2552.5	2557.5	2562.5	2567.5	2572.5	2577.5	2582.5	2587.5	2592.5	2597.5	2602.5	2607.5	2612.5	2617.5	2622.5	2627.5	2632.5	2637.5	2642.5	2647.5	2652.5	2657.5	2662.5	2667.5	2672.5	2677.5	2682.5	2687.5	2692.5	2697.5	2702.5	2707.5	2712.5	2717.5	2722.5	2727.5	2732.5	2737.5	2742.5	2747.5	2752.5	2757.5	2762.5	2767.5	2772.5	2777.5	2782.5	2787.5	2792.5	2797.5	2802.5	2807.5	2812.5	2817.5	2822.5	2827.5	2832.5	2837.5	2842.5	2847.5	2852.5	2857.5	2862.5	2867.5	2872.5	2877.5	2882.5	2887.5	2892.5	2897.5	2902.5	2907.5	2912.5	2917.5	2922.5	2927.5	2932.5	2937.5	2942.5	2947.5	2952.5	2957.5	2962.5	2967.5	2972.5	2977.5	2982.5	2987.5	2992.5	2997.5	3002.5	3007.5	3012.5	3017.5	3022.5	3027.5	3032.5	3037.5	3042.5	3047.5	3052.5	3057.5	3062.5	3067.5	3072.5	3077.5	3082.5	3087.5	3092.5	3097.5	3102.5	3107.5	3112.5	3117.5	3122.5	3127.5	3132.5	3137.5	3142.5	3147.5	3152.5	3157.5	3162.5	3167.5	3172.5	3177.5	3182.5	3187.5	3192.5	3197.5	3202.5	3207.5	3212.5	3217.5	3222.5	3227.5	3232.5	3237.5	3242.5	3247.5	3252.5	3257.5	3262.5	3267.5	3272.5	3277.5	3282.5	3287.5	3292.5	3297.5	3302.5	3307.5	3312.5	3317.5	3322.5	3327.5	3332.5	3337.5	3342.5	3347.5	3352.5	3357.5	3362.5	3367.5	3372.5	3377.5	3382.5	3387.5	3392.5	3397.5	3402.5	3407.5	3412.5	3417.5	3422.5	3427.5	3432.5	3437.5	3442.5	3447.5	3452.5	3457.5	3462.5	3467.5	3472.5	3477.5	3482.5	3487.5	3492.5	3497.5	3502.5	3507.5	3512.5	3517.5	3522.5	3527.5	3532.5	3537.5	3542.5	3547.5	3552.5	3557.5	3562.5	3567.5	3572.5	3577.5	3582.5	3587.5	3592.5	3597.5	3602.5	3607.5	3612.5	3617.5	3622.5	3627.5	3632.5	3637.5	3642.5	3647.5	3652.5	3657.5	3662.5	3667.5	3672.5	3677.5	3682.5	3687.5	3692.5	3697.5	3702.5	3707.5	3712.5	3717.5	3722.5	3727.5	3732.5	3737.5	3742.5	3747.5	3752.5	3757.5	3762.5	3767.5	3772.5	3777.5	3782.5	3787.5	3792.5	3797.5	3802.5	3807.5	3812.5	3817.5	3822.5	3827.5	3832.5	3837.5	3842.5	3847.5	3852.5	3857.5	3862.5	3867.5	3872.5	3877.5	3882.5	3887.5	3892.5	3897.5	3902.5	3907.5	3912.5	3917.5	3922.5	3927.5	3932.5	3937.5	3942.5	3947.5	3952.5	3957.5	3962.5	3967.5	3972.5	3977.5	3982.5	3987.5	3992.5	3997.5	4002.5	4007.5	4012.5	4017.5	4022.5	4027.5	4032.5	4037.5	4042.5	4047.5	4052.5	4057.5	4062.5	4067.5	4072.5	4077.5	4082.5	4087.5	4092.5	4097.5	4102.5	4107.5	4112.5	4117.5	4122.5	4127.5	4132.5	4137.5	4142.5	4147.5	4152.5	4157.5	4162.5	4167.5	4172.5	4177.5	4182.5	4187.5	4192.5	4197.5	4202.5	4207.5	4212.5	4217.5	4222.5	4227.5	4232.5	4237.5	4242.5	4247.5	4252.5	4257.5	4262.5	4267.5	4272.5	4277.5	4282.5	4287.5	4292.5	4297.5	4302.5	4307.5	4312.5	4317.5	4322.5	4327.5	4332.5	4337.5	4342.5	4347.5	4352.5	4357.5	4362.5	4367.5	4372.5	4377.5	4382.5	4387.5	4392.5	4397.5	4402.5	4407.5	4412.5	4417.5	4422.5	4427.5	4432.5	4437.5	4442.5	4447.5	4452.5	4457.5	4462.5	4467.5	4472.5	4477.5	4482.5	4487.5	4492.5	4497.5	4502.5	4507.5	4512.5	4517.5	4522.5	4527.5	4532.5	4537.5	4542.5	4547.5	4552.5	4557.5	4562.5	4567.5	4572.5	4577.5	4582.5	4587.5	4592.5	4597.5	4602.5	4607.5	4612.5	4617.5	4622.5	4627.5	4632.5	4637.5	4642.5	4647.5	4652.5	4657.5	4662.5	4667.5	4672.5	4677.5	4682.5	4687.5	4692.5	4697.5	4702.5	4707.5	4712.5	4717.5	4722.5	4727.5	4732.5	4737.5	4742.5	4747.5	4752.5	4757.5	4762.5	4767.5	4772.5	4777.5	4782.5	4787.5	4792.5	4797.5	4802.5	4807.5	4812.5	4817.5	4822.5	4827.5	4832.5	4837.5	4842.5	4847.5	4852.5	4857.5	4862.5	4867.5	4872.5	4877.5	4882.5	4887.5	4892.5	4897.5	4902.5	4907.5	4912.5	4917.5	4922.5	4927.5	4932.5	4937.5	4942.5	4947.5	4952.5	4957.5	4962.5	4967.5	4972.5	4977.5	4982.5	4987.5	4992.5	4997.5	5002.5	5007.5	5012.5	5017.5	5022.5	5027.5	5032.5	5037.5	5042.5	5047.5	5052.5	5057.5	5062.5	5067.5	5072.5	5077.5	5082.5	5087.5	5092.5	5097.5	5102.5	5107.5	5112.5	5117.5	5122.5	5127.5	5132.5	5137.5	5142.5	5147.5	5152.5	5157.5	5162.5	5167.5	5172.5	5177.5	5182.5	5187.5	5192.5	5197.5	5202.5	5207.5	5212.5	5217.5	5222.5	5227.5	5232.5	5237.5	5242.5	5247.5	5252.5	5257.5	5262.5	5267.5	5272.5	5277.5	5282.5	5287.5	5292.5	5297.5	5302.5	5307.5	5312.5	5317.5	5322.5	5327.5	5332.5	5337.5	5342.5	5347.5	5352.5	5357.5	5362.5	5367.5	5372.5	5377.5	5382.5	5387.5	5392.5	5397.5	5402.5	5407.5	5412.5	5417.5	5422.5	5427.5	5432.5	5437.5	5442.5	5447.5	5452.5	5457.5	5462.5	5467.5	5472.5	5477.5	5482.5	5487.5	5492.5	5497.5	5502.5	5507.5	5512.5	5517.5	5522.5	5527.5	5532.5	5537.5	5542.5	5547.5	5552.5	5557.5	5562.5	5567.5	5572.5	5577.5	5582.5	5587.5	5592.5	5597.5	5602.5	5607.5	5612.5	5617.5	5622.5	5627.5	5632.5	5637.5	5642.5	5647.5	5652.5	5657.5	5662.5	5667.5	5672.5	5677.5	5682.5	5687.5	5692.5	5697.5	5702.5	5707.5	5712.5	5717.5	5722.5	5
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PERIODICAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. 5

[illegible]

[illegible]

ZONAL VELOCITY IN UNITS OF $CP/SEC.$ AT LEVEL NO. 6

	32.5N	27.5	22.5	17.5	12.5	07.5	02.5N	07.5E
37.5N								
						0.15504 01 0.40544 01 0.34786-00 0.11076 01 -0.12476-01		
32.5N								
						0.25224 01 0.31004 02 -0.16274 01 0.27034 01 -0.31944 01 -0.18764 01		
27.5N								
						0.18624 01 0.17044 01 0.36184 01 -0.32904 01 -0.27614 01 -0.43324 01 0.11944 01 0.37044-00 -0.		
22.5N								
						-0.36604 01 0.44804 00 -0.32804 01 -0.42674-00 -0.14314 01 0.68364 00 -0.27754-00 0.62714 01 -0.51204 00 0.37784-00		
17.5N								
						-0.66034 01 0.37314 01 -0.15544 01 -0.77604 01 -0.58044 01 -0.78444 00 -0.41714 01 -0.50074 00 -0.26384 01 -0.34504-01 -0.19164 01		
12.5N								
						-0.75444 01 -0.44444-00 -0.41444 01 -0.10744 01 -0.32874 01 -0.91264 00 -0.26034 01 -0.55064 00 -0.24714 01 -0.60154 00 -0.26044 01 -0.22024-00		
07.5N								
						0.24054 01 -0.18674 02 0.46324 01 -0.11814 02 0.75444 01 -0.76564 01 0.67344 01 -0.51544 01 0.54444 01 -0.48654 01 0.33144 01 -0.46744 01 0.19444 01 -0.40244 01		
						-0.48784 01 0.50374 01 -0.47194 01 0.17544 01 -0.12944 01 0.11014 01 -0.11884 01 0.54084-00 -0.16544 01 0.54444 01 -0.51544 01 0.23444-01 -0.34544-00 0.19444-00		
						0.14524 02 0.98944 01 -0.16044 02 0.55524 01 -0.64054 01 0.81324 01 -0.40844 01 0.72404 01 -0.27744 01 0.67644 01 -0.41874 00 0.71544 01 0.26544-00 0.60844 01		
						0.40774 00 0.40744 01 0.67734 00 0.44714 01 0.74944 00 -0.70314 00 0.44504 01 0.58444 01 0.57644 01 0.40024 01 0.57064 01 0.42274 01 0.44214 01 0.31544 01		
						-0.15704 01 0.50004 01 -0.26504 01 0.70344 01 -0.13544 01 0.56624 01 -0.18674 01 0.40444 01 -0.21444 01 0.54144 01		
						0.69024 00 -0.57944 01 -0.29444-00 -0.34674 01 -0.40044 00 -0.41444 01 -0.40044 00 -0.41444 01 -0.17444-00 -0.27244 01 -0.		-0.

07.5E

[illegible]

ZONAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. 1

[illegible]

STREAM FUNCTION IN UNITS OF $C_0 \cdot \pi^2 / \Delta L$ AT LEVEL NO. 6

	42.5h	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5h	87.5h	92.5	97.5	02.5h	07.5h
57.5h														
52.5h														
47.5h														
42.5h														
37.5h														
32.5h														
27.5h														
22.5h														
17.5h														
12.5h														
07.5h														
02.5h														

0.5799E DV -0.2775E CV 0.1230E CV -0.2400E CV -0.4402E DV -0.1055E DV

0.6094E DV -0.2400E DV -0.1645E DV 0.2479E DV -0.3631E DV 0.9415E DV

-0.4635E DV 0.4570E DV -0.1127E DV 0.1281E DV -0.4444E DV 0.4444E DV 0.4444E DV -0.2555E DV -0.2577E DV -0.5546E DV

-0.1151E DV -0.4695E DV -0.1677E DV -0.5036E DV -0.4474E DV -0.1467E DV -0.1377E DV -0.2782E DV -0.1493E DV 0.1422E DV -0.1704E DV

-0.1681E DV 0.1477E DV -0.2150E DV 0.1499E DV -0.1504E DV 0.3460E DV -0.1474E DV 0.4109E DV -0.7716E DV 0.5777E DV -0.5792E DV 0.5702E DV -0.4467E DV

-0.1967E DV 0.5947E DV -0.2091E DV 0.4455E DV -0.5455E DV 0.5704E DV 0.2432E DV 0.2402E DV -0.9491E DV 0.2502E DV 0.2544E DV 0.1534E DV 0.1193E DV

0.1404E DV 0.5947E DV -0.2091E DV 0.4455E DV -0.5455E DV 0.5704E DV 0.2432E DV 0.2402E DV -0.9491E DV 0.2502E DV 0.2544E DV 0.1534E DV 0.1193E DV

0.1492E DV 0.4414E DV -0.4887E DV 0.4414E DV -0.4887E DV 0.4414E DV -0.4887E DV 0.4414E DV -0.4887E DV 0.4414E DV -0.4887E DV 0.4414E DV -0.4887E DV

0.1240E DV 0.1617E DV -0.1139E DV 0.2270E DV -0.1139E DV 0.2270E DV -0.1139E DV 0.2270E DV -0.1139E DV 0.2270E DV -0.1139E DV 0.2270E DV -0.1139E DV

0.6708E DV -0.1772E DV 0.3493E DV -0.1477E DV 0.1477E DV -0.1477E DV 0.1477E DV -0.1477E DV 0.1477E DV -0.1477E DV 0.1477E DV -0.1477E DV

0.5163E DV -0.5494E DV -0.5494E DV -0.5494E DV -0.5494E DV -0.5494E DV -0.5494E DV -0.5494E DV -0.5494E DV -0.5494E DV -0.5494E DV

-0.1228E DV -0.2485E DV -0.3443E DV -0.2485E DV -0.1228E DV -0.2485E DV -0.3443E DV -0.2485E DV -0.1228E DV -0.2485E DV -0.3443E DV

[illegible]

	82.5N	77.5	74.5	69.5	56.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5
57.5N										0.6372E-01	-0.2402E-01	0.4956E-01	-0.2528E-01	-0.1319E-01	
52.5N										0.5552E-01	0.2423E-01	-0.2604E-01	-0.1474E-01	-0.2713E-02	-0.6164E-02
47.5N										-0.2651E-02	0.5194E-02	-0.6067E-02	-0.1025E-02	-0.1474E-02	0.5207E-00
42.5N										0.4822E-00	0.7497E-00	-0.1452E-00	-0.1039E-00	-0.5805E-00	0.5434E-00
37.5N										-0.1593E-01	0.4712E-01	0.7567E-00	-0.1121E-01	-0.7757E-00	0.5555E-00
32.5N										-0.6802E-01	0.6747E-00	-0.5561E-00	-0.2232E-01	-0.2534E-00	0.5118E-00
27.5N										-0.5492E-01	0.4024E-01	-0.5494E-00	-0.2534E-00	-0.4760E-00	0.5494E-00
22.5N										-0.2550E-01	0.1055E-01	-0.5494E-00	-0.2534E-00	-0.4760E-00	0.5494E-00
17.5N										-0.2550E-01	0.1055E-01	-0.5494E-00	-0.2534E-00	-0.4760E-00	0.5494E-00
12.5N										-0.2550E-01	0.1055E-01	-0.5494E-00	-0.2534E-00	-0.4760E-00	0.5494E-00
07.5N										-0.2550E-01	0.1055E-01	-0.5494E-00	-0.2534E-00	-0.4760E-00	0.5494E-00

0.316E+01	0.1196E+00	-0.2401E-03	-0.2734E+00	-0.2442E+01	-0.1346E+00	0.1450E+00	-0.1435E+00	0.1654E+00	-0.3345E+00	0.1081E+00
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[illegible]

GENERAL VELOCITY IN UNITS OF C.F./SEC. AT LEVEL NO. 9

[illegible]

PERIODICAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. γ

[illegible]

[illegible]

[illegible]

53.5h	01.5h	02.5h	03.5h	04.5h	05.5h	06.5h	07.5h	08.5h	09.5h	10.5h	11.5h	12.5h	13.5h	14.5h	15.5h	16.5h	17.5h	18.5h	19.5h	20.5h	21.5h	22.5h	23.5h	24.5h	25.5h	26.5h	27.5h	28.5h	29.5h	30.5h	31.5h	32.5h	33.5h	34.5h	35.5h	36.5h	37.5h	38.5h	39.5h	40.5h	41.5h	42.5h	43.5h	44.5h	45.5h	46.5h	47.5h	48.5h	49.5h	50.5h	51.5h	52.5h	53.5h	54.5h	55.5h	56.5h	57.5h	58.5h	59.5h	60.5h	61.5h	62.5h	63.5h	64.5h	65.5h	66.5h	67.5h	68.5h	69.5h	70.5h	71.5h	72.5h	73.5h	74.5h	75.5h	76.5h	77.5h	78.5h	79.5h	80.5h	81.5h	82.5h	83.5h	84.5h	85.5h	86.5h	87.5h	88.5h	89.5h	90.5h	91.5h	92.5h	93.5h	94.5h	95.5h	96.5h	97.5h	98.5h	99.5h	100.5h	101.5h	102.5h	103.5h	104.5h	105.5h	106.5h	107.5h	108.5h	109.5h	110.5h	111.5h	112.5h	113.5h	114.5h	115.5h	116.5h	117.5h	118.5h	119.5h	120.5h	121.5h	122.5h	123.5h	124.5h	125.5h	126.5h	127.5h	128.5h	129.5h	130.5h	131.5h	132.5h	133.5h	134.5h	135.5h	136.5h	137.5h	138.5h	139.5h	140.5h	141.5h	142.5h	143.5h	144.5h	145.5h	146.5h	147.5h	148.5h	149.5h	150.5h	151.5h	152.5h	153.5h	154.5h	155.5h	156.5h	157.5h	158.5h	159.5h	160.5h	161.5h	162.5h	163.5h	164.5h	165.5h	166.5h	167.5h	168.5h	169.5h	170.5h	171.5h	172.5h	173.5h	174.5h	175.5h	176.5h	177.5h	178.5h	179.5h	180.5h	181.5h	182.5h	183.5h	184.5h	185.5h	186.5h	187.5h	188.5h	189.5h	190.5h	191.5h	192.5h	193.5h	194.5h	195.5h	196.5h	197.5h	198.5h	199.5h	200.5h	201.5h	202.5h	203.5h	204.5h	205.5h	206.5h	207.5h	208.5h	209.5h	210.5h	211.5h	212.5h	213.5h	214.5h	215.5h	216.5h	217.5h	218.5h	219.5h	220.5h	221.5h	222.5h	223.5h	224.5h	225.5h	226.5h	227.5h	228.5h	229.5h	230.5h	231.5h	232.5h	233.5h	234.5h	235.5h	236.5h	237.5h	238.5h	239.5h	240.5h	241.5h	242.5h	243.5h	244.5h	245.5h	246.5h	247.5h	248.5h	249.5h	250.5h	251.5h	252.5h	253.5h	254.5h	255.5h	256.5h	257.5h	258.5h	259.5h	260.5h	261.5h	262.5h	263.5h	264.5h	265.5h	266.5h	267.5h	268.5h	269.5h	270.5h	271.5h	272.5h	273.5h	274.5h	275.5h	276.5h	277.5h	278.5h	279.5h	280.5h	281.5h	282.5h	283.5h	284.5h	285.5h	286.5h	287.5h	288.5h	289.5h	290.5h	291.5h	292.5h	293.5h	294.5h	295.5h	296.5h	297.5h	298.5h	299.5h	300.5h	301.5h	302.5h	303.5h	304.5h	305.5h	306.5h	307.5h	308.5h	309.5h	310.5h	311.5h	312.5h	313.5h	314.5h	315.5h	316.5h	317.5h	318.5h	319.5h	320.5h	321.5h	322.5h	323.5h	324.5h	325.5h	326.5h	327.5h	328.5h	329.5h	330.5h	331.5h	332.5h	333.5h	334.5h	335.5h	336.5h	337.5h	338.5h	339.5h	340.5h	341.5h	342.5h	343.5h	344.5h	345.5h	346.5h	347.5h	348.5h	349.5h	350.5h	351.5h	352.5h	353.5h	354.5h	355.5h	356.5h	357.5h	358.5h	359.5h	360.5h	361.5h	362.5h	363.5h	364.5h	365.5h	366.5h	367.5h	368.5h	369.5h	370.5h	371.5h	372.5h	373.5h	374.5h	375.5h	376.5h	377.5h	378.5h	379.5h	380.5
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PERICENTRAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. 11

[illegible]

STREAM FUNCTION IN UNITS OF CM**2/SEC. AT LEVEL NO. 12

	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5N	07.5E
57.5N																		
52.5N																		
47.5N																		
42.5N																		
37.5N																		
32.5N																		
27.5N																		
22.5N																		
17.5N																		
12.5N																		
07.5N																		
02.5N																		

0.1671E OV -0.2277E CV 0.4465E DE -0.1565E DF -0.7113E DT -0.4070E DB

-0.1156E DB -0.1070E CV 0.2456E DB -0.2775E CB 0.7606E CE 0.1105E CF 0.7566E DB

-0.2112E DB 0.1561E CB -0.2552E DB 0.4458E CB -0.1746E CB -0.1750E CB -0.6855E DF -0.2452E DB -0.1407E DB -0.2106E DB

-0.7655E DB -0.9765E DT -0.5565E DB 0.1476E DB -0.2722E CB -0.1174E DF -0.2144E CB -0.1317E CB -0.1450E CB -0.7475E DT -0.1375E DB

-0.5586E DB 0.5316E DB -0.1144E CV 0.7386E DB -0.1157E DB 0.3357E DB -0.2022E DB 0.1775E CB -0.7661E DE 0.3125E DT -0.6322E DB

0.7076E DB 0.1755E CV -0.5031E DB 0.2123E CV -0.6078E DB 0.2013E CV -0.5113E DB 0.1593E CV -0.4556E CB 0.1284E CV -0.2111E CB 0.1004E CV -0.2707E DT 0.4444E DB

0.1545E DB 0.1667E CV -0.2125E DB 0.2474E CV -0.6745E DB 0.2344E CV -0.2744E DB 0.2284E CV -0.1254E DB 0.2166E CV 0.4453E DT 0.2655E CV

0.2207E CV 0.4426E DB 0.1207E CV 0.1412E CV 0.5744E DB 0.2554E CV 0.2047E DB 0.2565E CV 0.1584E DB 0.2607E CV 0.2325E DB 0.2456E CV

0.5386E DB 0.1077E DB 0.6019E DB 0.4624E DB 0.5105E DB 0.1261E CV 0.5340E DB 0.1368E DB 0.1044E CV 0.1586E DB 0.1377E CV 0.1582E DB 0.1361E CV

0.1147E DB -0.1554E CV 0.1074E CV -0.1754E CV 0.7703E DB -0.1775E CV 0.4046E DB -0.1683E CV 0.5624E CB -0.1644E CV 0.2573E DB -0.1544E CV 0.1326E DT -0.1413E CV

-0.1518E CV -0.1074E CV -0.1165E CV -0.7043E DB -0.1165E CV -0.3619E DB -0.1227E CV -0.1452E DB -0.1227E CV -0.9227E DT -0.1185E CV

-0.1506E CV -0.5024E DB -0.6665E DB -0.9246E DB -0.3357E CB -0.1153E CV -0.2641E DB -0.1224E DB -0.1186E DB -0.9907E DT -0.1166E DB

ZONAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. 12

[illegible]

[illegible]

	02.5m	17.5	32.5	47.5	62.5	77.5	92.5	107.5	122.5	137.5	152.5	167.5	182.5	197.5	212.5	227.5	242.5	257.5	272.5	287.5	302.5	317.5	332.5	347.5	362.5	377.5	392.5	407.5	422.5	437.5	452.5	467.5	482.5	497.5	512.5	527.5	542.5	557.5	572.5	587.5	602.5	617.5	632.5	647.5	662.5	677.5	692.5	707.5	722.5	737.5	752.5	767.5	782.5	797.5	812.5	827.5	842.5	857.5	872.5	887.5	902.5	917.5	932.5	947.5	962.5	977.5	992.5	1007.5	1022.5	1037.5	1052.5	1067.5	1082.5	1097.5	1112.5	1127.5	1142.5	1157.5	1172.5	1187.5	1202.5	1217.5	1232.5	1247.5	1262.5	1277.5	1292.5	1307.5	1322.5	1337.5	1352.5	1367.5	1382.5	1397.5	1412.5	1427.5	1442.5	1457.5	1472.5	1487.5	1502.5	1517.5	1532.5	1547.5	1562.5	1577.5	1592.5	1607.5	1622.5	1637.5	1652.5	1667.5	1682.5	1697.5	1712.5	1727.5	1742.5	1757.5	1772.5	1787.5	1802.5	1817.5	1832.5	1847.5	1862.5	1877.5	1892.5	1907.5	1922.5	1937.5	1952.5	1967.5	1982.5	1997.5	2012.5	2027.5	2042.5	2057.5	2072.5	2087.5	2102.5	2117.5	2132.5	2147.5	2162.5	2177.5	2192.5	2207.5	2222.5	2237.5	2252.5	2267.5	2282.5	2297.5	2312.5	2327.5	2342.5	2357.5	2372.5	2387.5	2402.5	2417.5	2432.5	2447.5	2462.5	2477.5	2492.5	2507.5	2522.5	2537.5	2552.5	2567.5	2582.5	2597.5	2612.5	2627.5	2642.5	2657.5	2672.5	2687.5	2702.5	2717.5	2732.5	2747.5	2762.5	2777.5	2792.5	2807.5	2822.5	2837.5	2852.5	2867.5	2882.5	2897.5	2912.5	2927.5	2942.5	2957.5	2972.5	2987.5	3002.5	3017.5	3032.5	3047.5	3062.5	3077.5	3092.5	3107.5	3122.5	3137.5	3152.5	3167.5	3182.5	3197.5	3212.5	3227.5	3242.5	3257.5	3272.5	3287.5	3302.5	3317.5	3332.5	3347.5	3362.5	3377.5	3392.5	3407.5	3422.5	3437.5	3452.5	3467.5	3482.5	3497.5	3512.5	3527.5	3542.5	3557.5	3572.5	3587.5	3602.5	3617.5	3632.5	3647.5	3662.5	3677.5	3692.5	3707.5	3722.5	3737.5	3752.5	3767.5	3782.5	3797.5	3812.5	3827.5	3842.5	3857.5	3872.5	3887.5	3902.5	3917.5	3932.5	3947.5	3962.5	3977.5	3992.5	4007.5	4022.5	4037.5	4052.5	4067.5	4082.5	4097.5	4112.5	4127.5	4142.5	4157.5	4172.5	4187.5	4202.5	4217.5	4232.5	4247.5	4262.5	4277.5	4292.5	4307.5	4322.5	4337.5	4352.5	4367.5	4382.5	4397.5	4412.5	4427.5	4442.5	4457.5	4472.5	4487.5	4502.5	4517.5	4532.5	4547.5	4562.5	4577.5	4592.5	4607.5	4622.5	4637.5	4652.5	4667.5	4682.5	4697.5	4712.5	4727.5	4742.5	4757.5	4772.5	4787.5	4802.5	4817.5	4832.5	4847.5	4862.5	4877.5	4892.5	4907.5	4922.5	4937.5	4952.5	4967.5	4982.5	4997.5	5012.5	5027.5	5042.5	5057.5	5072.5	5087.5	5102.5	5117.5	5132.5	5147.5	5162.5	5177.5	5192.5	5207.5	5222.5	5237.5	5252.5	5267.5	5282.5	5297.5	5312.5	5327.5	5342.5	5357.5	5372.5	5387.5	5402.5	5417.5	5432.5	5447.5	5462.5	5477.5	5492.5	5507.5	5522.5	5537.5	5552.5	5567.5	5582.5	5597.5	5612.5	5627.5	5642.5	5657
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	42.5h	47.5	52.5	57.5	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5	102.5	107.5	112.5	117.5	122.5	127.5	132.5	137.5	142.5	147.5	152.5	157.5	162.5	167.5	172.5	177.5	182.5	187.5	192.5	197.5	202.5	207.5	212.5	217.5	222.5	227.5	232.5	237.5	242.5	247.5	252.5	257.5	262.5	267.5	272.5	277.5	282.5	287.5	292.5	297.5	302.5	307.5	312.5	317.5	322.5	327.5	332.5	337.5	342.5	347.5	352.5	357.5	362.5	367.5	372.5	377.5	382.5	387.5	392.5	397.5	402.5	407.5	412.5	417.5	422.5	427.5	432.5	437.5	442.5	447.5	452.5	457.5	462.5	467.5	472.5	477.5	482.5	487.5	492.5	497.5	502.5	507.5	512.5	517.5	522.5	527.5	532.5	537.5	542.5	547.5	552.5	557.5	562.5	567.5	572.5	577.5	582.5	587.5	592.5	597.5	602.5	607.5	612.5	617.5	622.5	627.5	632.5	637.5	642.5	647.5	652.5	657.5	662.5	667.5	672.5	677.5	682.5	687.5	692.5	697.5	702.5	707.5	712.5	717.5	722.5	727.5	732.5	737.5	742.5	747.5	752.5	757.5	762.5	767.5	772.5	777.5	782.5	787.5	792.5	797.5	802.5	807.5	812.5	817.5	822.5	827.5	832.5	837.5	842.5	847.5	852.5	857.5	862.5	867.5	872.5	877.5	882.5	887.5	892.5	897.5	902.5	907.5	912.5	917.5	922.5	927.5	932.5	937.5	942.5	947.5	952.5	957.5	962.5	967.5	972.5	977.5	982.5	987.5	992.5	997.5	1002.5	1007.5	1012.5	1017.5	1022.5	1027.5	1032.5	1037.5	1042.5	1047.5	1052.5	1057.5	1062.5	1067.5	1072.5	1077.5	1082.5	1087.5	1092.5	1097.5	1102.5	1107.5	1112.5	1117.5	1122.5	1127.5	1132.5	1137.5	1142.5	1147.5	1152.5	1157.5	1162.5	1167.5	1172.5	1177.5	1182.5	1187.5	1192.5	1197.5	1202.5	1207.5	1212.5	1217.5	1222.5	1227.5	1232.5	1237.5	1242.5	1247.5	1252.5	1257.5	1262.5	1267.5	1272.5	1277.5	1282.5	1287.5	1292.5	1297.5	1302.5	1307.5	1312.5	1317.5	1322.5	1327.5	1332.5	1337.5	1342.5	1347.5	1352.5	1357.5	1362.5	1367.5	1372.5	1377.5	1382.5	1387.5	1392.5	1397.5	1402.5	1407.5	1412.5	1417.5	1422.5	1427.5	1432.5	1437.5	1442.5	1447.5	1452.5	1457.5	1462.5	1467.5	1472.5	1477.5	1482.5	1487.5	1492.5	1497.5	1502.5	1507.5	1512.5	1517.5	1522.5	1527.5	1532.5	1537.5	1542.5	1547.5	1552.5	1557.5	1562.5	1567.5	1572.5	1577.5	1582.5	1587.5	1592.5	1597.5	1602.5	1607.5	1612.5	1617.5	1622.5	1627.5	1632.5	1637.5	1642.5	1647.5	1652.5	1657.5	1662.5	1667.5	1672.5	1677.5	1682.5	1687.5	1692.5	1697.5	1702.5	1707.5	1712.5	1717.5	1722.5	1727.5	1732.5	1737.5	1742.5	1747.5	1752.5	1757.5	1762.5	1767.5	1772.5	1777.5	1782.5	1787.5	1792.5	1797.5	1802.5	1807.5	1812.5	1817.5	1822.5	1827.5	1832.5	1837.5	1842.5	1847.5	1852.5	1857.5	1862.5	1867.5	1872.5	1877.5	1882.5	1887.5	1892.5	1897.5	1902.5	1907.5	1912.5	1917.5	1922.5	1927.5	1932.5	1937.5	1942.5	1947.5	1952.5	1957.5	1962.5	1967.5	1972.5	1977.5	1982.5	19
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[illegible]

$-0.1017E$ $0Y$ $-0.1172E$ $0B$ $-0.1170E$ $0B$ $-0.4847E$ $0B$ $-0.4441E$ $0E$ $-0.2776E$ $0B$ $-0.2715E$ $0B$ $-0.8840E$ $0B$ $-0.8638E$ $0B$ $-0.1684E$ $0B$ $-0.8747E$ $0B$

ZONAL VELOCITY IN UNITS OF $\text{CM}/\text{SEC.}$ AT LEVEL NO. IN

[illegible]

[illegible]

STREAM FUNCTION IN UNITS OF $CP \cdot \omega \cdot 2/\pi U_\infty$ AT LEVEL $Y=0$

	82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5m	07.5m
57.5m																		
52.5m																		
47.5m																		
42.5m																		
37.5m																		
32.5m																		
27.5m																		
22.5m																		
17.5m																		
12.5m																		
07.5m																		
02.5m																		

0.15544 OF -0.12628 OV 0.56555 OB -0.49766 OB 0.11544 OB -0.56146 OB

-0.12106 OB -0.21608 OB 0.46912 OF 0.59622 OF 0.47662 OF 0.47662 OF 0.52026 OB

-0.12944 OB 0.15656 OB -0.12564 OF 0.28222 OB -0.44444 OF 0.66476 OF -0.16156 OB -0.17664 OF -0.15156 OB -0.16664 OF -0.10344 OB

-0.34276 OB 0.44716 OF -0.28446 OB 0.15136 OB -0.24236 OB 0.41316 OF -0.45556 OF -0.45556 OF -0.45556 OF -0.45556 OF

-0.41676 OB 0.12416 OB -0.70776 OF 0.12536 OF -0.11506 OB 0.12604 OF -0.12754 OB 0.16746 OF -0.55816 OF 0.16746 OF -0.55816 OF

0.74956 OB 0.64366 OB 0.74666 OF 0.12536 OF -0.11506 OB 0.12604 OF -0.12754 OB 0.16746 OF -0.55816 OF 0.16746 OF -0.55816 OF

0.15456 OB 0.44666 OB 0.12536 OF 0.44316 OF 0.12176 OF 0.60044 OB 0.15336 OF 0.44666 OB 0.12536 OF 0.44316 OF 0.12176 OF

0.17086 OB 0.15086 OB 0.15086 OB 0.47626 OB 0.47626 OB 0.47626 OB 0.47626 OB 0.47626 OB 0.47626 OB 0.47626 OB 0.47626 OB

0.48506 OB 0.28716 OB 0.61306 OB 0.45546 OB 0.56546 OB 0.56546 OB 0.56546 OB 0.56546 OB 0.56546 OB 0.56546 OB 0.56546 OB

-0.11226 OB -0.75766 OB 0.16276 OB -0.11766 OF 0.27626 OB -0.12286 OF 0.37506 OB -0.13476 OF 0.26046 OB -0.14056 OF 0.12326 OB -0.13476 OF -0.12376 OF

-0.11266 OF -0.27776 OB -0.67576 OB -0.44046 OB -0.44056 OB -0.55846 OB -0.28676 OB -0.41476 OF -0.14766 OB -0.64146 OB

-0.87956 OB -0.67546 OF -0.64876 OF -0.35156 OB -0.46276 OB -0.55676 OF -0.29616 OB -0.67316 OB -0.17526 OB -0.75564 OB -0.11206 OB -0.74146 OB

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

STREAP FUNCTION IN UNITS OF CM**2/SEC. AT LEVEL N2. 17

	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	7.5	02.5N
57.5N																	
52.5N																	
47.5N																	
42.5N																	
37.5N																	
32.5N																	
27.5N																	
22.5N																	
17.5N																	
12.5N																	
07.5N																	
02.5N																	

-0.2155E 0N -0.4041E 0N 0.2494E 0N -0.7744E 0N 0.1164E 0N -0.4406E 0N

0.1123E 07 0.2448E 07 0.3690E 0N 0.1276E 0N 0.4406E 0N 0.1931E 07 0.5553E 0N

0.3429E 07 0.4900E 07 0.2444E 07 0.1641E 0N 0.2951E 07 -0.1544E 0N -0.1473E 0N -0.2525E 07 -0.7444E 07

-0.2555E 0N 0.2214E 07 -0.5511E 0N 0.1640E 0N -0.0440E 0N 0.2035E 0N -0.5544E 0N 0.1544E 0N -0.5444E 0N -0.4444E 0N

-0.1639E 0N 0.2214E 07 -0.5511E 0N 0.1640E 0N -0.0440E 0N 0.2035E 0N -0.5544E 0N 0.1544E 0N -0.5444E 0N -0.4444E 0N

0.6747E 0N 0.3104E 0N 0.2747E 0N 0.7544E 0N -0.1222E 0N 0.4161E 0N -0.2144E 0N 0.6710E 0N -0.1624E 0N 0.4757E 0N -0.4955E 07 0.7444E 0N 0.6372E 0N

0.1071E 0N 0.2125E 0N 0.6437E 0N 0.7031E 0N 0.2749E 0N 0.1073E 0N 0.1001E 0N 0.1234E 0N 0.6022E 07 0.1276E 0N 0.1266E 0N 0.1132E 0N 0.1266E 0N

0.1345E 0N 0.1556E 0N 0.1513E 0N 0.3755E 0N 0.4492E 0N 0.4124E 0N 0.6027E 0N 0.4444E 0N 0.1156E 0N 0.2749E 0N 0.1244E 0N 0.2657E 0N 0.1257E 0N

0.4344E 0N 0.2444E 0N 0.4470E 0N 0.2664E 0N 0.4454E 0N 0.1100E 0N 0.4044E 0N 0.4180E 0N 0.2149E 0N 0.4444E 0N 0.1444E 0N 0.1666E 0N 0.1666E 0N

-0.4230E 0N -0.4444E 0N -0.1641E 0N -0.8131E 0N 0.1544E 07 -0.4450E 0N 0.4681E 07 -0.1100E 0N 0.1374E 0N -0.1175E 0N -0.3342E 07 -0.1164E 0N

-0.4102E 0N -0.4525E 07 -0.5775E 0N -0.2145E 0N -0.3442E 0N -0.2884E 0N -0.2555E 0N -0.5444E 0N -0.1444E 0N -0.1444E 0N

-0.4544E 0N -0.2307E 07 -0.5944E 0N -0.1442E 0N -0.4422E 0N -0.2444E 0N -0.2555E 0N -0.4255E 0N -0.4255E 0N -0.4255E 0N

-0.4544E 0N -0.2307E 07 -0.5944E 0N -0.1442E 0N -0.4422E 0N -0.2444E 0N -0.2555E 0N -0.4255E 0N -0.4255E 0N -0.4255E 0N

-0.4544E 0N -0.2307E 07 -0.5944E 0N -0.1442E 0N -0.4422E 0N -0.2444E 0N -0.2555E 0N -0.4255E 0N -0.4255E 0N -0.4255E 0N

-0.4544E 0N -0.2307E 07 -0.5944E 0N -0.1442E 0N -0.4422E 0N -0.2444E 0N -0.2555E 0N -0.4255E 0N -0.4255E 0N -0.4255E 0N

ZENITH VELOCITY IN UNITS OF C/SEC. AT LEVEL NO. 17

	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5N	07.5E
52.5N																		
52.5N																		
47.5N																		
42.5N																		
37.5N																		
32.5N																		
27.5N																		
22.5N																		
17.5N																		
12.5N																		
07.5N																		
02.5N																		

-0.4036E-00 -0.1444E-00 -0.5556E-00 -0.9000E-01 -0.4890E-01 -0.5787E-02

-0.2447E-01 -0.2232E-02 -0.1322E-00 -0.1012E-01 0.4556E-00 0.2044E-00

-0.1404E-00 0.2876E-00 -0.8197E-01 0.2664E-00 0.4623E-00 0.3774E-00 0.8044E-00 0.2556E-00 0.4597E-00 0.6400E-01 -0.

0.1127E-01 0.7511E-00 -0.2151E-00 0.4551E-00 -0.1582E-01 0.8744E-00 -0.2271E-01 0.3855E-00 -0.9844E-01 0.4744E-00 -0.4556E-01 0.4466E-00

-0.2766E-00 -0.3656E-00 -0.7444E-00 0.5686E-01 -0.4444E-00 0.1758E-00 -0.1444E-01 0.1780E-00 -0.1012E-01 0.2174E-00 -0.5144E-00 0.1621E-00 -0.8416E-00

-0.2427E-00 -0.1079E-01 -0.4231E-00 -0.4551E-00 -0.4016E-00 -0.1506E-01 -0.7444E-00 -0.1147E-01 -0.6944E-00 -0.1221E-01 -0.6090E-00 -0.1244E-01 -0.5274E-00

-0.1404E-00 0.2876E-00 -0.8197E-01 0.2664E-00 0.4623E-00 0.3774E-00 0.8044E-00 0.2556E-00 0.4597E-00 0.6400E-01 -0.1404E-00

0.4466E-00 -0.4036E-00 0.1444E-00 0.5556E-00 0.9000E-01 0.4890E-01 0.5787E-02 0.4036E-00 0.1444E-00 0.5556E-00 0.9000E-01 0.4890E-01 0.5787E-02

0.1404E-00 0.2876E-00 -0.8197E-01 0.2664E-00 0.4623E-00 0.3774E-00 0.8044E-00 0.2556E-00 0.4597E-00 0.6400E-01 -0.1404E-00

0.4466E-00 -0.4036E-00 0.1444E-00 0.5556E-00 0.9000E-01 0.4890E-01 0.5787E-02 0.4036E-00 0.1444E-00 0.5556E-00 0.9000E-01 0.4890E-01 0.5787E-02

-0.1127E-01 0.7511E-00 -0.2151E-00 0.4551E-00 -0.1582E-01 0.8744E-00 -0.2271E-01 0.3855E-00 -0.9844E-01 0.4744E-00 -0.4556E-01 0.4466E-00

-0.5235E-00 -0.2447E-01 -0.2232E-02 -0.1322E-00 -0.1012E-01 0.4556E-00 0.2044E-00 -0.2447E-01 -0.2232E-02 -0.1322E-00 -0.1012E-01 0.4556E-00

-0.

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STREAP FUNCTION IN UNITS OF $C_0 \cdot 10^{-2}/\text{SEC. AT LEVEL NO. 10}$

	82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5
57.5m																
52.5m																
47.5m																
42.5m																
37.5m																
32.5m																
27.5m																
22.5m																
17.5m																
12.5m																
07.5m																
02.5m																

-0.2568E 08 -0.4215E 08 0.1427E 08 -0.4555E 08 0.1275E 08 -0.4180E 08

0.6791E 07 0.8608E 07 0.5801E 06 0.1247E 08 0.3779E 07 0.4024E 07 0.1405E 08

0.4823E 07 0.7539E 07 0.1751E 07 0.1072E 08 -0.1130E 08 0.1244E 07 -0.1244E 07 -0.1565E 07 -0.3900E 07 -0.1651E 07 -0.4022E 07

-0.2076E 08 0.4715E 08 0.1044E 08 0.4400E 08 -0.1649E 08 -0.2674E 07 -0.7044E 07 -0.4124E 07 -0.2715E 07 -0.4710E 07

-0.3456E 08 -0.4555E 08 0.1044E 08 0.1542E 08 -0.5502E 08 0.1165E 08 -0.5060E 08 0.5855E 07 -0.4652E 08 -0.1000E 08 -0.4142E 08

0.6071E 08 0.2195E 08 0.2422E 08 0.5758E 08 -0.5401E 07 0.7553E 08 -0.1722E 08 0.7644E 08 -0.4055E 07 0.6755E 07 -0.6442E 08 0.4048E 08

0.4407E 08 0.1427E 08 0.7014E 08 0.5235E 08 0.3494E 08 0.8595E 08 0.1598E 08 0.1029E 07 0.9557E 07 0.1044E 07 0.1055E 07 0.1030E 08 0.1055E 08

0.1177E 08 0.1257E 08 0.1175E 08 0.2446E 08 0.9575E 08 0.5171E 08 0.1554E 08 0.6847E 08 0.1554E 08 0.9191E 08 0.2848E 08 0.1027E 09 0.1901E 08 0.1051E 09

0.5755E 08 0.1945E 08 0.4655E 08 0.1935E 08 0.3711E 08 0.2724E 08 0.1461E 08 0.1461E 08 0.3791E 08 0.1325E 08 0.4244E 08 0.4244E 08 0.4244E 08 0.4244E 08

-0.4465E 08 -0.5865E 08 -0.2032E 08 -0.6891E 08 -0.4119E 07 -0.4223E 08 -0.1065E 08 -0.1065E 08 -0.1065E 08 -0.1065E 08 -0.1065E 08 -0.1065E 08 -0.1065E 08 -0.1065E 08

-0.6696E 08 -0.5627E 07 -0.5119E 08 -0.1347E 08 -0.3555E 08 -0.1423E 08 -0.2555E 08 -0.2412E 08 -0.1287E 08 -0.1287E 08 -0.1287E 08 -0.1287E 08 -0.1287E 08 -0.1287E 08

-0.5555E 08 -0.8444E 08 -0.5252E 08 -0.8444E 07 -0.4115E 08 -0.2002E 08 -0.2875E 08 -0.3129E 08 -0.1942E 08 -0.3786E 08 -0.1066E 08 -0.1066E 08 -0.1066E 08 -0.1066E 08

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	82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5
37.5m											0.1442E-01	-0.1174E-01	0.1208E-0C	0.2571E-00	-0.5282E-00	0.4008E-00
32.5m											-0.8402E-01	-0.5216E-00	0.5425E-02	-0.6372E-01	0.1569E-00	0.4180E-01
27.5m											-0.1101E-00	0.6094E-01	-0.8499E-01	0.2174E-00	0.1517E-00	-0.6255E-02
22.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
17.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
12.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
07.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
37.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
32.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
27.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
22.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
17.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
12.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01
07.5m											-0.1151E-00	-0.2289E-01	-0.1749E-01	-0.2183E-00	0.1621E-00	-0.8991E-01

-0.6810E-01	-0.1909E-01	0.1090E-00	-0.1600E-00	0.1747E-00	-0.1617E-00	0.1557E-00	-0.1396E-00	0.1189E-00	-0.1172E-00	0.6167E-01	-0.7466E-01
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[illegible]

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SIREAP FUNCTION IN UNITS BP CP. **2/SEC. AT LEVEL NO. 22

	82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5m	07.5m
97.5m																		
92.5m																		
87.5m																		
82.5m																		
77.5m																		
72.5m																		
67.5m																		
62.5m																		
57.5m																		
52.5m																		
47.5m																		
42.5m																		
37.5m																		
32.5m																		
27.5m																		
22.5m																		
17.5m																		
12.5m																		
07.5m																		
02.5m																		

-0.1635E 08 -0.6945E 07 -0.5751E 07 -0.1556E 08 -0.2492E 06 -0.1609E 08
0.1176E 08 0.5121E 07 0.4400E 07 0.4513E 07 0.8500E 07 0.2624E 07 0.8666E 07
-0.5437E 06 -0.1182E 07 -0.1671E 07 -0.3172E 07 -0.7192E 08 -0.3281E 07 -0.5556E 05 -0.2816E 07 -0.991E 05 -0.2359E 07
-0.4447E 07 -0.5531E 05 -0.5235E 07 0.1593E 06 -0.5373E 07 0.1873E 07 -0.4305E 07 0.1371E 07 -0.3024E 07 0.1199E 07 -0.1503E 07 0.1658E 06
-0.1954E 08 -0.5571E 07 -0.1956E 08 -0.2050E 07 -0.2101E 08 0.7368E 05 -0.2268E 08 0.6474E 08 -0.2322E 08 0.1104E 08 -0.2272E 08 -0.1104E 07 -0.2040E 08
0.2084E 08 0.1877E 07 0.2023E 08 0.5003E 07 0.1468E 08 0.1424E 08 0.7620E 07 0.1944E 08 0.5144E 07 0.2303E 08 0.1547E 07 0.2599E 08 0.1944E 07 0.2660E 08
0.2816E 08 0.2431E 07 0.2448E 08 0.4425E 07 0.2646E 08 0.8582E 07 0.1947E 08 0.1506E 08 0.1362E 08 0.2622E 08 0.4851E 07 0.2572E 08 0.5548E 07 0.2544E 08
0.2400E 08 -0.1634E 06 0.2485E 08 -0.3535E 07 0.3031E 08 -0.5185E 07 0.2756E 08 -0.3470E 07 0.2203E 08 0.6104E 06 0.1502E 08 0.5244E 07 0.8008E 07 0.4264E 07
0.6166E 07 -0.2302E 08 0.5586E 07 0.3466E 07 0.4868E 08 0.4455E 06 0.5107E 07 0.4492E 06 0.4487E 07 0.1251E 07 0.5511E 07 0.2425E 07 0.2147E 07 0.3636E 07
-0.1844E 08 -0.7241E 07 -0.3408E 08 -0.1118E 08 -0.2890E 08 -0.1673E 08 -0.2340E 08 -0.2754E 08 -0.1734E 08 -0.2618E 08 -0.1171E 08 -0.3231E 08 -0.7390E 07 -0.3402E 08
-0.5549E 07 0.2444E 07 -0.5485E 07 0.4450E 07 -0.4324E 07 0.5370E 07 -0.2657E 07 0.5108E 07 -0.1117E 07 0.4720E 07
-0.8216E 07 0.8154E 06 -0.9420E 07 0.2413E 07 -0.1092E 08 0.3640E 07 -0.1034E 08 0.2456E 07 -0.8155E 07 0.1980E 07 -0.4134E 07 0.4013E 06

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[illegible]

[illegible]

[illegible]

WIND DIRECTION	WIND VELOCITY	WIND VELOCITY IN UNITS OF C.F./SEC. AT LEVEL NO. 24	WIND VELOCITY IN UNITS OF C.F./SEC. AT LEVEL NO. 24
0	0.0	0.0	0.0
1	0.1	0.1	0.1
2	0.2	0.2	0.2
3	0.3	0.3	0.3
4	0.4	0.4	0.4
5	0.5	0.5	0.5
6	0.6	0.6	0.6
7	0.7	0.7	0.7
8	0.8	0.8	0.8
9	0.9	0.9	0.9
10	1.0	1.0	1.0
11	1.1	1.1	1.1
12	1.2	1.2	1.2
13	1.3	1.3	1.3
14	1.4	1.4	1.4
15	1.5	1.5	1.5
16	1.6	1.6	1.6
17	1.7	1.7	1.7
18	1.8	1.8	1.8
19	1.9	1.9	1.9
20	2.0	2.0	2.0
21	2.1	2.1	2.1
22	2.2	2.2	2.2
23	2.3	2.3	2.3
24	2.4	2.4	2.4
25	2.5	2.5	2.5
26	2.6	2.6	2.6
27	2.7	2.7	2.7
28	2.8	2.8	2.8
29	2.9	2.9	2.9
30	3.0	3.0	3.0
31	3.1	3.1	3.1
32	3.2	3.2	3.2
33	3.3	3.3	3.3
34	3.4	3.4	3.4
35	3.5	3.5	3.5
36	3.6	3.6	3.6
37	3.7	3.7	3.7
38	3.8	3.8	3.8
39	3.9	3.9	3.9
40	4.0	4.0	4.0
41	4.1	4.1	4.1
42	4.2	4.2	4.2
43	4.3	4.3	4.3
44	4.4	4.4	4.4
45	4.5	4.5	4.5
46	4.6	4.6	4.6
47	4.7	4.7	4.7
48	4.8	4.8	4.8
49	4.9	4.9	4.9
50	5.0	5.0	5.0
51	5.1	5.1	5.1
52	5.2	5.2	5.2
53	5.3	5.3	5.3
54	5.4	5.4	5.4
55	5.5	5.5	5.5
56	5.6	5.6	5.6
57	5.7	5.7	5.7
58	5.8	5.8	5.8
59	5.9	5.9	5.9
60	6.0	6.0	6.0
61	6.1	6.1	6.1
62	6.2	6.2	6.2
63	6.3	6.3	6.3
64	6.4	6.4	6.4
65	6.5	6.5	6.5
66	6.6	6.6	6.6
67	6.7	6.7	6.7
68	6.8	6.8	6.8
69	6.9	6.9	6.9
70	7.0	7.0	7.0
71	7.1	7.1	7.1
72	7.2	7.2	7.2
73	7.3	7.3	7.3
74	7.4	7.4	7.4
75	7.5	7.5	7.5
76	7.6	7.6	7.6
77	7.7	7.7	7.7
78	7.8	7.8	7.8
79	7.9	7.9	7.9
80	8.0	8.0	8.0
81	8.1	8.1	8.1
82	8.2	8.2	8.2
83	8.3	8.3	8.3
84	8.4	8.4	8.4
85	8.5	8.5	8.5
86	8.6	8.6	8.6
87	8.7	8.7	8.7
88	8.8	8.8	8.8
89	8.9	8.9	8.9
90	9.0	9.0	9.0
91	9.1	9.1	9.1
92	9.2	9.2	9.2
93	9.3	9.3	9.3
94	9.4	9.4	9.4
95	9.5		

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NEW YORK UNIV BRONX GEOPHYSICAL SCIENCES LAB

F/G 4/2

A THREE DIMENSIONAL MODEL OF THE WIND DRIVEN HORIZONTAL VELOCIT--ETC(U)

OCT 63 E S HASSAN, F D MALONE

N62306-794

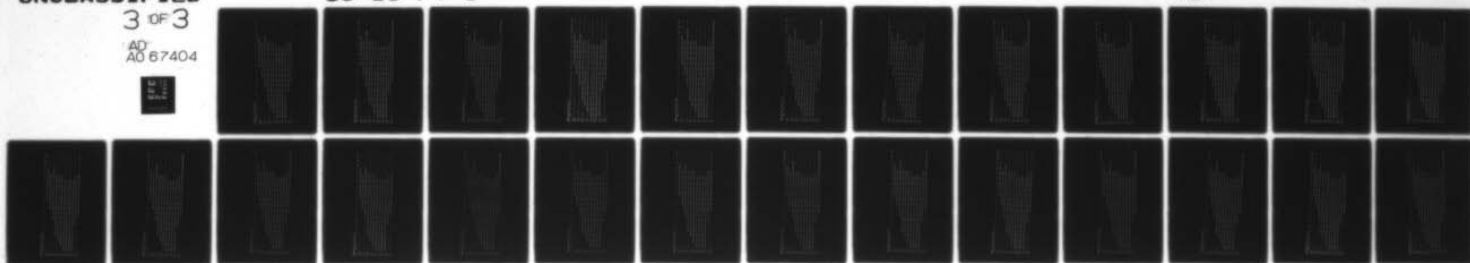
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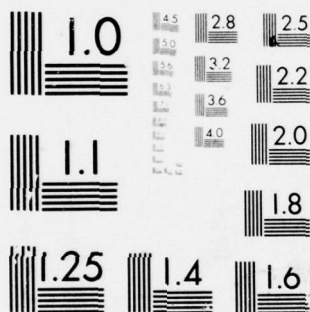


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DATE
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DDC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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51.5h	-0.1570E 07 -0.1245E 06 -0.1261E 07 -0.2411E 06 -0.6631E 06 -0.5556E 06	07.5	02.5h	07.5	02.5h	07.5
52.5h	0.1220E 07 0.5260E 25 0.1091E 07 0.1161E 06 0.6196E 06 0.1556E 06 0.5631E 06					
57.5h	-0.4200E 06 -0.4998E 05 -0.5896E 05 -0.6622E 05 -0.2196E 26 -0.1197E 06 -0.1696E 06 -0.1045E 06 -0.1577E 06 -0.7730E 05 -0.1867E 06					
62.5h	0.2150E 06 0.1277E 06 0.2708E 06 0.1905E 06 0.2622E 06 0.2106E 06 0.3916E 06 0.1560E 06 0.3753E 06 0.7767E 05 0.5066E 06					
67.5h	-0.5100E 07 -0.6775E 06 -0.5097E 07 -0.1331E 27 -0.4621E 07 -0.1068E 07 -0.4655E 07 -0.0969E 06 -0.4550E 07 -0.7845E 06 -0.4480E 07 -0.6210E 06 -0.4310E 07					
72.5h	0.1922E 07 0.4605E 05 0.2210E 07 -0.1936E 06 0.2580E 07 -0.2646E 06 0.2672E 07 -0.7247E 06 0.1506E 07 0.3109E 06 0.4605E 06 0.5675E 06					
77.5h	-0.4600E 05 -0.3165E 06 0.2496E 06 0.5377E 06 -0.4697E 06 0.7176E 06 -0.1045E 07 0.7500E 06 -0.1045E 07 0.5953E 06 -0.9171E 06 0.2690E 06 -0.7237E 06					
82.5h	-0.2736E 07 -0.9727E 06 -0.2903E 07 -0.1576E 07 -0.1493E 07 -0.2776E 07 -0.1594E 07 -0.2776E 07 -0.1090E 07 -0.3190E 27 -0.7186E 06 -0.1707E 07 -0.5016E 06 -0.3803E 07					
87.5h	0.4035E 06 0.3626E 06 0.8129E 06 0.4601E 06 0.7166E 06 0.5601E 06 0.6617E 06 0.5637E 06 0.4666E 06 0.5566E 26 0.5362E 06 0.4500E 06 0.1611E 06 0.2683E 06					
92.5h	-0.2268E 07 0.46915E 06 -0.2378E 07 0.1150E 07 -0.2190E 07 0.1607E 07 -0.2196E 07 0.2151E 07 -0.1792E 07 0.2465E 07 -0.1256E 07 0.2676E 07 -0.5611E 06 0.2596E 07					
97.5h	0.1739E 07 0.2627E 05 0.1932E 07 -0.2686E 06 0.1027E 07 -0.5196E 06 0.5907E 06 -0.6135E 06 0.1800E 06 -0.1265E 07					
02.5h	0.5627E 06 0.1655E 06 0.6163E 26 0.3626E 06 0.6697E 06 0.5767E 06 0.6576E 06 0.4645E 06 0.5589E 06 0.1030E 07 0.5370E 06 0.1127E 07					

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	02.5h	71.5	12.5	61.5	62.5	51.5	52.5	67.5	42.5	31.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5h	07.5h
51.5h											-0.7720E-03	-0.7577E-02	0.5110E-02	-0.1411E-01	0.1059E-01	-0.1856E-01		
52.5h									0.1654E-02	0.2020E-02	-0.2285E-02	0.5867E-02	-0.1153E-02	0.4065E-02	0.7443E-03			
57.5h									0.1107E-03	-0.1719E-02	0.7772E-03	-0.2347E-02	0.1357E-02	0.2891E-04	0.2763E-03	-0.6571E-03	0.7577E-03	-0.1623E-02
62.5h											-0.1202E-02	0.1637E-03	-0.1577E-02	0.1152E-02	0.1375E-02	-0.8551E-03	0.1249E-02	0.7976E-03
67.5h									0.3658E-02	-0.5291E-02	0.3246E-02	-0.5378E-02	0.1355E-02	-0.2672E-02	-0.1115E-02	-0.7656E-03	-0.2859E-03	-0.1670E-02
72.5h											0.5276E-02	-0.3077E-02	0.2190E-02	-0.7505E-04	-0.1005E-02	0.4082E-02	-0.6766E-02	0.1103E-01
77.5h									0.5276E-02	-0.3077E-02	0.2190E-02	-0.7505E-04	-0.1005E-02	0.4082E-02	-0.6766E-02	0.1103E-01	-0.6355E-02	0.1089E-01
82.5h									0.4890E-02	-0.4877E-02	0.4102E-02	-0.4535E-02	0.4480E-02	-0.5532E-02	0.2777E-02	-0.8121E-03	-0.2563E-02	0.4557E-02
87.5h									0.4728E-02	-0.4931E-02	0.9102E-02	-0.7163E-02	0.9128E-02	-0.7716E-02	0.9247E-02	-0.7698E-02	0.8411E-02	-0.6504E-02
92.5h									-0.3631E-02	0.1866E-02	-0.1754E-02	0.1277E-02	-0.1263E-02	0.1387E-02	-0.9260E-03	0.1831E-02	-0.1855E-03	0.1634E-02
97.5h									-0.9094E-02	0.5115E-02	-0.4820E-02	0.1377E-02	-0.6381E-02	-0.7459E-03	-0.4758E-02	-0.3265E-02	-0.2464E-02	-0.5085E-02
01.5h											0.1025E-02	0.5563E-02	0.2022E-02	0.4494E-02	0.2186E-02	0.4996E-02	0.2354E-02	0.4153E-02
02.5h											-0.1065E-02	-0.1509E-03	-0.1992E-02	0.2868E-03	-0.2766E-02	0.8819E-03	-0.1513E-02	0.1619E-02
																-0.2715E-02	0.3093E-02	-0.1999E-02

[illegible]

	57.5	62.5	67.5	72.5	77.5	82.5	87.5	92.5	97.5	01.5	02.5	03.5	04.5	05.5	06.5	07.5	08.5	09.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5	18.5	19.5	20.5	21.5	22.5	23.5	24.5	25.5	26.5	27.5	28.5	29.5	30.5	31.5	32.5	33.5	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5	43.5	44.5	45.5	46.5	47.5	48.5	49.5	50.5	51.5	52.5	53.5	54.5	55.5	56.5	57.5	58.5	59.5	60.5	61.5	62.5	63.5	64.5	65.5	66.5	67.5	68.5	69.5	70.5	71.5	72.5	73.5	74.5	75.5	76.5	77.5	78.5	79.5	80.5	81.5	82.5	83.5	84.5	85.5	86.5	87.5	88.5	89.5	90.5	91.5	92.5	93.5	94.5	95.5	96.5	97.5	98.5	99.5	100.5	101.5	102.5	103.5	104.5	105.5	106.5	107.5	108.5	109.5	110.5	111.5	112.5	113.5	114.5	115.5	116.5	117.5	118.5	119.5	120.5	121.5	122.5	123.5	124.5	125.5	126.5	127.5	128.5	129.5	130.5	131.5	132.5	133.5	134.5	135.5	136.5	137.5	138.5	139.5	140.5	141.5	142.5	143.5	144.5	145.5	146.5	147.5	148.5	149.5	150.5	151.5	152.5	153.5	154.5	155.5	156.5	157.5	158.5	159.5	160.5	161.5	162.5	163.5	164.5	165.5	166.5	167.5	168.5	169.5	170.5	171.5	172.5	173.5	174.5	175.5	176.5	177.5	178.5	179.5	180.5	181.5	182.5	183.5	184.5	185.5	186.5	187.5	188.5	189.5	190.5	191.5	192.5	193.5	194.5	195.5	196.5	197.5	198.5	199.5	200.5	201.5	202.5	203.5	204.5	205.5	206.5	207.5	208.5	209.5	210.5	211.5	212.5	213.5	214.5	215.5	216.5	217.5	218.5	219.5	220.5	221.5	222.5	223.5	224.5	225.5	226.5	227.5	228.5	229.5	230.5	231.5	232.5	233.5	234.5	235.5	236.5	237.5	238.5	239.5	240.5	241.5	242.5	243.5	244.5	245.5	246.5	247.5	248.5	249.5	250.5	251.5	252.5	253.5	254.5	255.5	256.5	257.5	258.5	259.5	260.5	261.5	262.5	263.5	264.5	265.5	266.5	267.5	268.5	269.5	270.5	271.5	272.5	273.5	274.5	275.5	276.5	277.5	278.5	279.5	280.5	281.5	282.5	283.5	284.5	285.5	286.5	287.5	288.5	289.5	290.5	291.5	292.5	293.5	294.5	295.5	296.5	297.5	298.5	299.5	300.5	301.5	302.5	303.5	304.5	305.5	306.5	307.5	308.5	309.5	310.5	311.5	312.5	313.5	314.5	315.5	316.5	317.5	318.5	319.5	320.5	321.5	322.5	323.5	324.5	325.5	326.5	327.5	328.5	329.5	330.5	331.5	332.5	333.5	334.5	335.5	336.5	337.5	338.5	339.5	340.5	341.5	342.5	343.5	344.5	345.5	346.5	347.5	348.5	349.5	350.5	351.5	352.5	353.5	354.5	355.5	356.5	357.5	358.5	359.5	360.5	361.5	362.5	363.5	364.5	365.5	366.5	367.5	368.5	369.5	370.5	371.5	372.5	373.5	374.5	375.5	376.5	377.5	378.5	379.5	380.5	381.5	382.5	383.5	384.5	385.5	386.5	387.5	388.5	389.5	390.5	391.5	392.5	393.5	394.5	395.5	396.5	397.5	398.5	399.5	400.5	401.5	402.5	403.5	404.5	405.5	406.5	407.5	408.5	409.5	410.5</
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[illegible]

[illegible]

ZONAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. 27

[illegible]

[illegible]

[illegible]

[illegible]

ZONAL VELOCITY IN UNITS OF CM/SEC. AT LEVEL NO. 29

	82.5N	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5N
57.5N											-0.1809E-03	-0.5214E-04	-0.1931E-03	-0.5027E-04	-0.1823E-03	0.1755E-03
52.5N										-0.1174E-04	-0.4724E-04	-0.1352E-03	-0.6578E-04	-6.8624E-04	-0.1817E-04	
47.5N										-0.1387E-03	-0.0988E-04	0.1917E-04	-0.1400E-03	0.7460E-04	-0.9274E-04	0.1963E-03
42.5N										0.1627E-02	-0.2990E-04	0.1524E-02	-0.1442E-04	0.1489E-02	0.5554E-04	0.1472E-02
37.5N										0.2270E-04	0.2270E-04	0.2270E-04	0.2270E-04	0.2270E-04	0.2270E-04	0.2270E-04
32.5N										-0.1047E-03	-0.2340E-02	-0.2471E-03	-0.2285E-02	-0.2471E-03	-0.2285E-02	-0.2471E-03
27.5N										-0.3160E-03	-0.8176E-03	-0.1190E-03	-0.4975E-03	-0.1772E-03	-0.9751E-03	-0.2628E-03
22.5N										0.4784E-03	0.4784E-03	0.4784E-03	0.4784E-03	0.4784E-03	0.4784E-03	0.4784E-03
17.5N										-0.3622E-04	0.2892E-03	-0.1432E-05	0.5355E-03	0.4835E-03	0.4835E-03	0.4835E-03
12.5N										-0.1539E-03	-0.1162E-03	-0.2248E-03	-0.1807E-03	-0.1204E-03	-0.1394E-03	-0.1394E-03
07.5N										-0.1802E-04	0.5553E-03	-0.8655E-04	0.5178E-03	-0.1594E-03	0.2175E-03	0.1675E-03
02.5N										-0.5998E-04	0.1428E-03	-0.4030E-04	0.2053E-03	-0.1614E-04	0.2674E-03	0.4032E-03

PERIPHERAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL $\eta_0 = 25$

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STREAM FUNCTION IN UNITS OF $C \cdot \pi \cdot 2 / \text{SEC.}$ AT LEVEL NO. 35

	82.5M	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5M
57.5M																
52.5M																
47.5M																
42.5M																
37.5M																
32.5M																
27.5M																
22.5M																
17.5M																
12.5M																
07.5M																
02.5M																

-0.1035E 0M -0.2225E 0M -0.1315E 0M -0.1744E 0M -0.1711E 0M -0.1551E 0M

0.512E 0M 0.768E 0M 0.4445E 0M 0.511E 0M 0.5632E 0M 0.710E 0M 0.5494E 0M

0.1708E 0M 0.2927E 0M 0.1408E 0M 0.5635E 0M 0.6947E 0M 0.5688E 0M 0.4403E 0M 0.1458E 0M

-0.3625E 0M -0.4550E 0M -0.1074E 0M 0.1408E 0M 0.4445E 0M 0.8451E 0M 0.1495E 0M 0.1011E 0M -0.4882E 0M

-0.4571E 0M -0.122E 0M -0.122E 0M -0.122E 0M -0.122E 0M -0.122E 0M -0.122E 0M -0.122E 0M -0.122E 0M

-0.122E 0M 0.622E 0M -0.4551E 0M 0.111E 0M 0.111E 0M 0.111E 0M 0.111E 0M 0.111E 0M 0.111E 0M

0.4021E 0M 0.4921E 0M 0.122E 0M 0.4921E 0M 0.122E 0M 0.4921E 0M 0.122E 0M 0.4921E 0M 0.122E 0M

0.1718E 0M 0.2244E 0M 0.2127E 0M 0.1511E 0M 0.2394E 0M 0.2502E 0M 0.2427E 0M 0.2427E 0M 0.2427E 0M

-0.1044E 0M 0.2651E 0M -0.6325E 0M 0.5314E 0M -0.1456E 0M 0.1608E 0M 0.2472E 0M 0.2472E 0M 0.2472E 0M

-0.1056E 0M -0.1651E 0M -0.4551E 0M -0.2134E 0M 0.1742E 0M 0.1198E 0M 0.3459E 0M 0.3459E 0M 0.3459E 0M

0.5878E 0M 0.2744E 0M 0.5450E 0M 0.5154E 0M 0.4588E 0M 0.4769E 0M 0.1751E 0M 0.1751E 0M 0.1751E 0M

-0.1018E 0M -0.2768E 0M -0.2404E 0M -0.2154E 0M -0.2494E 0M -0.2494E 0M -0.2494E 0M -0.2494E 0M -0.2494E 0M

	01.5E	02.5E	03.5E	04.5E	05.5E	06.5E	07.5E	08.5E	09.5E	10.5E	11.5E	12.5E	13.5E	14.5E	15.5E	16.5E	17.5E	18.5E	19.5E	20.5E	21.5E	22.5E	23.5E	24.5E	25.5E	26.5E	27.5E	28.5E	29.5E	30.5E	31.5E	32.5E	33.5E	34.5E	35.5E	36.5E	37.5E	38.5E	39.5E	40.5E	41.5E	42.5E	43.5E	44.5E	45.5E	46.5E	47.5E	48.5E	49.5E	50.5E	51.5E	52.5E	53.5E	54.5E	55.5E	56.5E	57.5E	58.5E	59.5E	60.5E	61.5E	62.5E	63.5E	64.5E	65.5E	66.5E	67.5E	68.5E	69.5E	70.5E	71.5E	72.5E	73.5E	74.5E	75.5E	76.5E	77.5E	78.5E	79.5E	80.5E	81.5E	82.5E	83.5E	84.5E	85.5E	86.5E	87.5E	88.5E	89.5E	90.5E	91.5E	92.5E	93.5E	94.5E	95.5E	96.5E	97.5E	98.5E	99.5E	100.5E	101.5E	102.5E	103.5E	104.5E	105.5E	106.5E	107.5E	108.5E	109.5E	110.5E	111.5E	112.5E	113.5E	114.5E	115.5E	116.5E	117.5E	118.5E	119.5E	120.5E	121.5E	122.5E	123.5E	124.5E	125.5E	126.5E	127.5E	128.5E	129.5E	130.5E	131.5E	132.5E	133.5E	134.5E	135.5E	136.5E	137.5E	138.5E	139.5E	140.5E	141.5E	142.5E	143.5E	144.5E	145.5E	146.5E	147.5E	148.5E	149.5E	150.5E	151.5E	152.5E	153.5E	154.5E	155.5E	156.5E	157.5E	158.5E	159.5E	160.5E	161.5E	162.5E	163.5E	164.5E	165.5E	166.5E	167.5E	168.5E	169.5E	170.5E	171.5E	172.5E	173.5E	174.5E	175.5E	176.5E	177.5E	178.5E	179.5E	180.5E	181.5E	182.5E	183.5E	184.5E	185.5E	186.5E	187.5E	188.5E	189.5E	190.5E	191.5E	192.5E	193.5E	194.5E	195.5E	196.5E	197.5E	198.5E	199.5E	200.5E	201.5E	202.5E	203.5E	204.5E	205.5E	206.5E	207.5E	208.5E	209.5E	210.5E	211.5E	212.5E	213.5E	214.5E	215.5E	216.5E	217.5E	218.5E	219.5E	220.5E	221.5E	222.5E	223.5E	224.5E	225.5E	226.5E	227.5E	228.5E	229.5E	230.5E	231.5E	232.5E	233.5E	234.5E	235.5E	236.5E	237.5E	238.5E	239.5E	240.5E	241.5E	242.5E	243.5E	244.5E	245.5E	246.5E	247.5E	248.5E	249.5E	250.5E	251.5E	252.5E	253.5E	254.5E	255.5E	256.5E	257.5E	258.5E	259.5E	260.5E	261.5E	262.5E	263.5E	264.5E	265.5E	266.5E	267.5E	268.5E	269.5E	270.5E	271.5E	272.5E	273.5E	274.5E	275.5E	276.5E	277.5E	278.5E	279.5E	280.5E	281.5E	282.5E	283.5E	284.5E	285.5E	286.5E	287.5E	288.5E	289.5E	290.5E	291.5E	292.5E	293.5E	294.5E	295.5E	296.5E	297.5E	298.5E	299.5E	300.5E	301.5E	302.5E	303.5E	304.5E	305.5E	306.5E	307.5E	308.5E	309.5E	310.5E	311.5E	312.5E	313.5E	314.5E	315.5E	316.5E	317.5E	318.5E	319.5E	320.5E	321.5E	322.5E	323.5E	324.5E	325.5E	326.5E	327.5E	328.5E	329.5E	330.5E	331.5E	332.5E	333.5E	334.5E	335.5E	336.5E	337.5E	338.5E	339.5E	340.5E	341.5E	342.5E	343.5E	344.5E	345.5E	346.5E	347.5E	348.5E	349.5E	350.5E	351.5E	352.5E	353.5E	354.5E	355.5E	356.5E	357.5E	358.5E	359.5E	360.5E	361.5E	362.5E	363.5E	364.5E	365.5E	366.5E	367.5E	368.5E	369.5E	370.5E	371.5E	372.5E	373.5E	374.5E	375.5E	376.5E	377.5E	378.5E	379.5E	380.5E
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PERICENTRAL VELOCITY IN UNITS OF CM./SEC. AT LEVEL NO. 30

	82.5h	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5h	07.5h
57.5h											0.4022E-04	0.5145E-06	-0.8764E-05	-0.7314E-05	-0.3567E-04	-0.1086E-04		
52.5h											-0.5128E-05	-0.2067E-04	-0.3970E-04	-0.1041E-04	0.2582E-04	0.4143E-04		
47.5h											-0.4508E-04	-0.4918E-04	-0.3598E-04	-0.3277E-04	-0.1895E-04	0.2732E-04	0.5145E-04	0.6210E-04
42.5h											-0.5215E-05	-0.4223E-04	-0.1457E-04	-0.4101E-04	-0.2843E-04	-0.5173E-04	0.4224E-05	-0.1814E-04
37.5h											-0.7234E-04	-0.5768E-04	-0.4498E-04	-0.3622E-04	-0.2463E-04	-0.1785E-04	0.2418E-04	0.4723E-04
32.5h											-0.8742E-04	-0.7612E-04	-0.5941E-04	-0.5723E-04	-0.2997E-04	-0.4650E-04	-0.5910E-05	0.2425E-04
27.5h											-0.4575E-04	-0.3766E-04	-0.4055E-04	-0.1946E-04	-0.3251E-04	-0.1182E-05	0.3184E-04	0.1044E-03
22.5h											-0.4017E-04	-0.2832E-04	-0.6717E-04	-0.5857E-04	-0.4598E-04	-0.3604E-04	-0.9324E-04	0.5808E-04
17.5h											-0.4329E-04	-0.4898E-04	-0.1872E-04	-0.5347E-04	-0.1746E-04	-0.4479E-04	-0.4575E-05	-0.2075E-04
12.5h											0.1805E-05	0.7642E-05	0.5058E-05	0.2522E-04	-0.1311E-04	-0.2473E-04	-0.4479E-04	0.4224E-04
07.5h											-0.2560E-04	0.1617E-04	0.7820E-05	0.2224E-04	-0.4654E-04	0.2208E-04	-0.7049E-05	0.1017E-04
02.5h											0.2485E-04	-0.5394E-04	0.2879E-05	-0.8345E-05	-0.1854E-05	-0.1311E-04	-0.4410E-05	-0.8464E-05

0.1804E-05 0.1289E-05 0.1189E-05 0.3053E-05 0.9485E-04

STRESS FUNCTION IN UNITS OF $CP \cdot \pi^2 / SEC.$ AT LEVEL NO. 31

	82.5m	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	7.5	07.5m
57.5m																	
52.5m																	
47.5m																	
42.5m																	
37.5m																	
32.5m																	
27.5m																	
22.5m																	
17.5m																	
12.5m																	
07.5m																	
02.5m																	

-0.1805E 03 -0.1014E 04 -0.8942E 03 -0.8072E 03 -0.4800E 03 -0.1506E 03
-0.1805E 03 -0.1014E 04 -0.8942E 03 -0.8072E 03 -0.4800E 03 -0.1506E 03
0.4701E 03 0.2837E 03 0.1955E 04 0.1155E 04 0.1408E 04 0.1224E 04 0.1194E 04
0.5662E 03 0.1615E 04 0.1408E 04 0.2662E 04 0.2946E 04 0.3276E 04 0.2812E 04 0.2326E 04 0.1088E 04 0.1072E 03 -0.2411E 03
-0.7600E 03 0.3944E 03 0.1066E 03 0.1719E 04 0.2577E 04 0.4452E 04 0.4153E 04 0.2836E 04 0.4441E 04 0.2408E 04 0.2916E 04 -0.1495E 03
-0.1115E 03 0.8076E 03 -0.9321E 04 0.2286E 04 -0.7391E 04 0.4173E 04 -0.5522E 04 0.5252E 04 -0.5122E 04 0.4515E 04 -0.6376E 04 0.2057E 04 -0.9544E 04
0.4857E 03 0.3459E 04 0.3646E 04 0.6397E 04 0.5606E 04 0.7695E 04 0.6840E 04 0.6526E 04 0.6701E 04 0.5754E 04 0.5606E 04 0.2771E 04 0.1569E 04
-0.4892E 02 0.2161E 04 0.5014E 04 0.4320E 04 0.5107E 04 0.5552E 04 0.6044E 04 0.6132E 04 0.7167E 04 0.5295E 04 0.6274E 04 0.3500E 04 -0.5876E 03
0.6941E 04 0.5021E 04 0.7137E 04 0.5021E 04 0.6813E 04 0.6545E 04 0.4453E 04 0.7041E 04 0.8647E 04 0.6248E 04 0.6794E 04 0.4312E 04 0.3277E 04 0.8160E 03
-0.4688E 03 0.2315E 04 0.7744E 03 0.4124E 04 0.2442E 04 0.5815E 04 0.5606E 04 0.6444E 04 0.5642E 04 0.5336E 04 0.2636E 04 0.1355E 04 0.6558E 03 0.8877E 03
-0.2521E 03 0.4215E 03 -0.9545E 02 0.8755E 03 0.8672E 03 0.2145E 04 0.2204E 04 0.1410E 04 0.1410E 04 0.5216E 03 0.1762E 02 -0.5108E 03 -0.7427E 03
0.1488E 04 0.4401E 03 0.1608E 04 -0.2612E 02 0.4380E 03 -0.7316E 03 0.1116E 03 -0.9468E 03 0.6444E 03 -0.3400E 03
-0.1595E 04 -0.5940E 03 -0.1529E 04 -0.1529E 04 -0.1144E 03 -0.8241E 03 -0.1144E 03 -0.5606E 03 -0.5606E 03 -0.4777E 02 -0.1548E 03 -0.4055E 02 -0.4055E 02

[illegible]

[illegible]

02.54 0.9225E-05 0.3730E-06 -0.3245E-05 -0.3992E-05 -0.1871E-05 -0.6466E-05 -0.4067E-05 -0.4755E-05 0.1740E-05 -0.3483E-06 -0.7072E-06 -0.2559E-06

STREAM FUNCTION IN UNITS OF $CP \cdot \omega^2 / SEC.$ AT LEVEL NO. 32

	82.5M	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5	02.5M	07.5M
82.5M																		
57.5M																		
52.5M																		
47.5M																		
42.5M																		
37.5M																		
32.5M																		
27.5M																		
22.5M																		
17.5M																		
12.5M																		
07.5M																		
02.5M																		

0.4402E 02 0.5177E 02 0.2722E 02 0.1750E 02 0.3657E 01 -0.3837E 01

0.1741E 02 0.1015E 01 -0.4906E 01 -0.1641E 02 -0.1503E 02 -0.1254E 02 -0.5584E 01

-0.1627E 02 -0.2039E 02 -0.2451E 02 -0.3453E 02 -0.3470E 02 -0.3470E 02 -0.2892E 02 -0.1400E 02 -0.9530E 01 -0.3436E 00 -0.1677E 01

-0.1305E 02 -0.2659E 02 -0.4372E 02 -0.5308E 02 -0.5890E 02 -0.5812E 02 -0.5722E 02 -0.5255E 02 -0.4442E 02 -0.2850E 02 -0.1117E 02

-0.4550E 02 -0.3471E 02 -0.5703E 02 -0.6664E 02 -0.7090E 02 -0.7564E 02 -0.7197E 02 -0.6545E 02 -0.5534E 02 -0.4335E 02 -0.2530E 02 -0.5719E 01

-0.7421E 02 -0.6279E 02 -0.4052E 02 -0.4171E 02 -0.8898E 02 -0.8391E 02 -0.8242E 02 -0.7531E 02 -0.6033E 02 -0.5047E 02 -0.4061E 02 -0.1770E 02 -0.1749E 01

-0.4817E 02 -0.6147E 02 -0.9445E 02 -0.4037E 02 -0.9228E 02 -0.8798E 02 -0.8798E 02 -0.8145E 02 -0.7755E 02 -0.6710E 02 -0.5794E 02 -0.4244E 02 -0.2641E 02 -0.1745E 01

-0.7382E 02 -0.8761E 02 -0.8080E 02 -0.6437E 02 -0.6998E 02 -0.7732E 02 -0.6541E 02 -0.6132E 02 -0.4617E 02 -0.4139E 02 -0.2441E 02 -0.1108E 02 0.4095E 01

-0.4213E 02 -0.3064E 02 -0.4873E 02 -0.5846E 02 -0.5177E 02 -0.4406E 02 -0.4512E 02 -0.3164E 02 -0.1388E 02 -0.1537E 02 -0.6277E 00 0.5240E 01 0.1251E 02

0.1229E 02 0.7421E 01 0.1098E 02 0.2485E 01 0.1910E 00 -0.4824E 01 -0.6447E 01 -0.5109E 01 0.1131E 01 0.7407E 01 0.1111E 02 0.1347E 02 0.1101E 02 0.1050E 02

0.4058E 02 0.1149E 02 0.2503E 02 0.1216E 02 0.2004E 02 0.1086E 02 0.1137E 02 0.3656E 01 0.5861E 00 -0.4175E 01

0.5277E 02 0.1417E 02 0.1941E 02 0.5430E 01 0.4251E 01 -0.1794E 01 -0.1262E 00 -0.6011E 01 -0.1348E 01 -0.3436E 01 -0.2659E 01 -0.4021E 01

	82.5M	77.5	72.5	67.5	62.5	57.5	52.5	47.5	42.5	37.5	32.5	27.5	22.5	17.5	12.5	07.5
57.5M											0.6598E-07	0.1946E-06	0.1370E-06	0.1261E-06	0.5029E-07	-0.5904E-09
52.5M									0.2633E-06	0.3272E-06	0.9354E-06	0.7277E-06	0.6087E-06	0.4056E-06	0.1679E-06	
47.5M							0.4264E-06	0.5303E-06	0.4013E-06	0.4001E-06	0.3988E-06	0.5027E-06	0.2347E-06	0.1271E-06	0.5293E-07	0.5755E-08
42.5M				0.3425E-06	0.5431E-06	0.5508E-06	0.4792E-06	0.4634E-06	0.4172E-06	0.3437E-06	0.2642E-06	0.1974E-06	0.1429E-06	0.5867E-07	-0.4078E-07	
37.5M			0.6098E-06	0.7855E-06	0.6645E-06	0.6167E-06	0.3707E-06	0.2549E-06	0.1246E-06	0.8504E-07	0.1001E-07	-0.5447E-07	-0.7191E-07	-0.1164E-06	-0.9870E-07	
32.5M		0.6662E-06	0.4771E-06	0.4034E-06	0.3372E-06	0.3044E-06	0.2369E-06	0.1159E-06	0.1875E-07	-0.4177E-07	-0.6632E-07	-0.1042E-06	-0.1544E-06	-0.1683E-06	-0.5167E-07	
27.5M		0.8225E-06	-0.3704E-06	0.2119E-06	-0.2671E-06	0.3762E-07	-0.2037E-06	-0.4470E-07	-0.1743E-06	-0.1018E-06	-0.1755E-06	-0.1557E-06	-0.2127E-06	-0.2193E-06	-0.2144E-06	
22.5M		-0.4860E-06	-0.2462E-06	-0.4499E-06	-0.1637E-06	-0.3632E-06	-0.4433E-06	-0.4427E-06	-0.4364E-06	-0.4554E-06	-0.4070E-06	-0.4124E-06	-0.5073E-06	-0.1964E-06		
17.5M		-0.4970E-06	-0.5666E-06	-0.9382E-06	-0.7073E-06	-0.8765E-06	-0.5924E-06	-0.6973E-06	-0.5631E-06	-0.6188E-06	-0.5410E-06	-0.5271E-06	-0.3766E-06	-0.2439E-06	-0.5453E-07	
12.5M		-0.3948E-06	-0.2946E-06	-0.4656E-06	-0.3644E-06	-0.4491E-06	-0.5773E-06	-0.5779E-06	-0.5779E-06	-0.4122E-06	-0.3749E-06	-0.2383E-06	-0.0444E-07	0.3321E-07	0.1462E-06	
07.5M							-0.1825E-07	-0.7678E-08	-0.5779E-06	-0.1090E-06	-0.1098E-06	0.4076E-07	0.6844E-07	0.1694E-06	0.1211E-07	
02.5M									0.5050E-06	0.1442E-06	0.2284E-06	0.1173E-06	0.1157E-06	0.2436E-07	-0.8721E-06	-0.5500E-07

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